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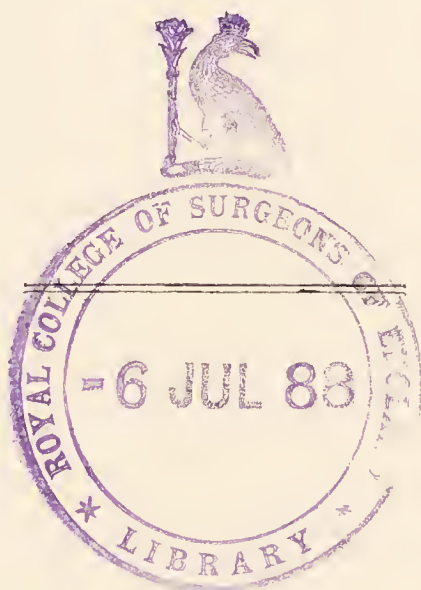
HEALTH OF LIVERPOOL,

DURING THE YEAR 1887,

WITH MAP, SHOWING THE LOCALITIES OF THE FATAL
PREVALENCE OF FEVER.

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LIVERPOOL:

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REPORT, 1887.

THE estimated population of the City, calculated on the rate of increase between 1871 and 1881, was 592,991, or 113·8 per acre, being the most densely populated City in Great Britain. Manchester comes next with a rate of 87·9, then Glasgow 85·8, and London 56 per acre.

The number of deaths during the year was 14,006, of which 222 were of residents outside the City, being 87 more than in 1886, but 543 below the average of the last ten years, notwithstanding the increase of population.

The number of deaths and rate per 1,000 for the year were in—

First	quarter	3,843,	equal to	25·9	per 1,000.
Second	„	3,661,	„	24·7	„
Third	„	3,331,	„	22·5	„
Fourth	„	3,171,	„	21·4	„
		Year.....14,006	„	23·6	„

The death rate (23·6) was the lowest ever recorded, and was 2·6 per 1,000 less than the average rate for the last ten years (1877 to 1886), and 5·7 less than the average rate for the previous ten years (1867 to 1876).

The death rate for 1886 was 23·7.

The deaths from Zymotic causes amounted to 2,672, being 460 more than in 1886, but 187 below the average of the last ten years.

The increase of deaths from Zymotic diseases was principally due to the prevalence of Measles and Whooping Cough during the first half of the year, and of Scarlatina during the latter half.

But for the increased number of deaths from Zymotic diseases over those of 1886, the death-rate would have been equal to 22·8 per 1,000. The deaths from the principal Zymotic diseases during the years 1886 and 1887, with the average rate of the previous ten years, are set out in the following Table:—

Diseases.	Deaths during 1887.		Deaths during 1886.		Average for preceding ten years.
Smallpox	1	.....	29	.....	55
Measles	661	.....	273	.....	476
Scarlatina.....	321	.....	277	.....	424
Whooping Cough...	429	.....	152	.....	439
Diarrhœa	619	.....	781	.....	667
Diphtheria	95	.....	125	.....	76
Fever	194	.....	198	.....	327

The number of births during the year was 18,414, being 1,145 less than in the previous year. This great decrease of births cannot be accounted for by local causes only, though there is no doubt a tendency on the part of the younger portion of the population to migrate into the suburbs; but the decrease is general over the whole country, according to the Registrar General, who states in his Report “that the rate for 1887 was lower than in any previous year since 1838, when birth registration was undoubtedly defective, and was 2·6 below the mean annual rate in the ten years 1877-86.” The greatest decrease has occurred in the large towns, where the local conditions are different, and, in many cases, quite the opposite, as between London, Brighton, Liverpool, Salford, and Leicester.

The following table shows the birth rate and its decrease between 1877-1887 :—

	Birth rate in 1877.			In 1887.	The Decrease.
London	... 36·	per 1,000 of pop.	...	31·6	... 4·4
Bristol	... 35·9	„	...	29·6	... 6·3
Wolverhampton	... 38·9	„	...	33·1	... 5·8
Birmingham	... 42·5	„	...	31·7	... 10·8
Nottingham	... 36·4	„	...	33·2	... 3·2
Manchester	... 38·4	„	...	35·8	... 2·6
Salford	... 42·1	„	...	31·8	... 10·3
Leicester	... 40·	„	...	32·7	... 7·3
Oldham	... 38·7	„	...	31·2	... 7·5
Bradford	... 37·9	„	...	27·6	... 10·3
Sheffield	... 38·5	„	...	32·8	... 5·7
Sunderland	... 40·8	„	...	34·5	... 6·3
Hull	.. 41·6	„	...	32·7	... 8·9
Leeds	... 39·9	„	...	33·2	... 6·7
Brighton	... 29·3	„	...	25·7	... 3·6
Liverpool	... 38·6	„	...	31·1	... 7·5
Edinburgh	... 33·1	„	...	29·2	... 3·9
Glasgow	... 37·7	„	...	36·9	... 0·8
Dublin	... 29·6	„	...	27·9	... 1·7

HOSPITAL ACCOMMODATION.

The want of proper accommodation for infectious cases has been very much felt during the year. Owing to the structural alterations being made in Netherfield Hospital, but few patients comparatively could be sent there, the hospital in Brownlow Hill affording the principal and only other accommodation until October, when the Vestry Clerk sent notice that the Scarlatina Wards were full, and no more cases could be taken in. The Hospitals Committee then made arrangements for the transfer of Fever patients to the Smallpox Hospital at Parkhill, thus relieving the pressure on the Brownlow Hill Hospital, and making further provision for Scarlatina cases. During the year there was an epidemic of Measles, which assumed larger proportions, and was more fatal, owing to the want of proper means of isolation.

SMALLPOX.

During the year 23 cases of Smallpox were reported, and all of them were taken to Parkhill Hospital. As a further illustration of the liability of Liverpool to the importation of disease, the following cases shew :—

On June 17th the s.s. Macedonia arrived from the Mediterranean, having one of the crew ill with Smallpox, who was immediately removed to hospital. Another of the crew landed with the disease in the incubative stage, and sickened a week later at 3, Slade Street. This man subsequently infected three other members of the family, all of whom were removed on the first day of illness to hospital before any eruption appeared. The disease was thus stamped out, and no further cases occurred.

FEVER.

Under the designation of Fever are included all deaths from Typhus, Typhoid, continued Fevers, and Febricula. The total number of deaths from these causes was 194, being four less than in the previous year, and 133 fewer than the average of the preceding ten years. Of the above 130 were certified to be enteric, and 52 typhus; the remainder being returned as Fever, Febris, Febricula and Remittent. The unenviable notoriety of Liverpool as a home of Typhus is being gradually removed by the efforts of the Corporation in demolishing insanitary property, and opening out the crowded parts of the City, but the inflammable material still exists, as shown by the following series of cases, which might be multiplied if it were thought necessary, and it is only by constant supervision and removal of the sick to hospital that the disease is kept in check.

On May 7th a man named Logan died in a cellar at 23, Menai Street, the real nature of the illness not being suspected, and death was attributed to that form of disease which the symptoms most closely simulated. It was only after a careful investigation by Dr. Hope into circumstances, which subsequently arose, that the true nature of the disease was discovered.

Logan's children, girls aged from 9 to 14 years, had been ailing for some time before the father became ill, and this fact, coupled with the circumstance that sweets were sold in the cellar, may account for the presence of a number of young girls, who lived in the neighbourhood, and who attended Logan's wake from May 7th to 10th, some of them actually remaining a whole night in the cellar. Eleven of the girls and one adult, who had been attracted to the cellar, contracted the disease, and in due course communicated it to the inmates of their respective homes. It must be stated that Typhus fever in children is often very obscure and mild, presenting none of the features which render it so formidable in adults, thus the difficulty of tracing the sickness was considerably increased, and the disease was able to obtain a hold upon the district.

Within two months after the wake was held on Logan's body fifty-one cases of Typhus were removed to hospital from Menai and the neighbouring streets, and there is no doubt a number of cases escaped observation, as there were occasional outbreaks reported in the same district for a few months afterwards. Had it not been for the constant supervision and seeking out for the sufferers, who, when discovered, were immediately removed to hospital, there is every probability that the disease would have spread over a large area with epidemic virulence.

SCARLATINA.

This disease assumed an epidemic character during the Autumn of the previous year, 1886, and was very prevalent during this year, there being 2,006 cases reported, of which 444 were removed to hospital, and 1,562 not removed. The number of deaths was 321, or 16·0 per cent. of reported cases.

MEASLES.

There was a severe epidemic of Measles during the year, no less than 4,518 cases being reported, and of which 99 only were removed to hospital. There will always be a difficulty in controlling this disease, owing to the principal sufferers being children of tender years, who require the atten-

tion of their mothers ; but still there should be some hospital provision for children who dwell in lodging - houses, milkshops, places of business, &c., from which there is every probability of the disease being disseminated.

The number of deaths was 661, or 14·6 per cent. of the cases reported.

The School Board kindly adopted the suggestions of the Medical Officer of Health not to press the attendance of children in the outlying districts of the town, or in any part where they are given to understand that the epidemic of Measles is rife. They also suspended throughout the City any proceedings in respect of children under six years of age who were not in attendance at school.

It was thought desirable to close only one school, and then solely on account of the absence of a very large number of children suffering from the disease. Being an infant school in a very poor neighbourhood, there was very little prospect of obtaining assistance from the parents in notifying sickness in their homes, or isolating the ailing ones, and consequently there was no alternative. The Managers of the school (St. Augustine's Infant School, Great Howard Street) readily complied with the notice, and rendered very efficient service in limiting the spread of contagion.

DIARRHŒA.

After a very cold and dry spring the weather became suddenly hot early in June, giving for that month a mean temperature of 61·2, or 5·1 above the corresponding month of the previous year. In July the mean temperature was 63·2, and in August 60·6, falling at the beginning of September as rapidly as it rose in June, giving a mean temperature for the month of 54·1, or 2·6 lower than in the corresponding month of 1886. Summer Diarrhœa made its appearance earlier than usual, showing its close relationship with a high temperature, and declined earlier with the decreasing heat of September. The number of deaths, chiefly infants, was 619, being an increase on the years 1877, 79, 81, 82, 83, and 85, but lower than in 1878, 80, 84, and 86.

The following table shows the death-rate per 1,000 of the population, and the number of deaths from Fever and Diarrhoea during the last twenty-two years :—

Year.	Death Rate per 1,000 of Population.	Deaths from Diarrhoea.	Deaths from Fever.	Deaths from Relapsing Fever.
1866	41·7	1,145	1,523	...
1867	29·4	796	656	...
1868	29·1	1,108	841	...
1869	28·9	1,001	783	...
1870	31·1	1,151	572	355
1871	35·1	1,127	701	207
1872	27·0	998	451	25
1873	25·8	906	335	...
1874	31·9	879	449	...
1875	27·5	842	490	...
1876	27·5	694	398	...
1877	26·4	605	382	...
1878	29·3	979	375	...
1879	26·9	402	248	...
1880	27·2	1,028	256	...
1881	26·6	508	292	...
1882	26·4	587	593	...
1883	26·6	518	540	...
1884	25·1	841	205	...
1885	23·7	422	182	...
1886	23·7	781	198	...
1887	23·6	619	194	...

During the fifty-two weeks of the year 1887 (terminating on Saturday, December 31st, 1887), the Returns of the Local Registrars recorded 18,414 births and 14,006 deaths within the City; the numbers for the corresponding period of the previous year, 1886, were 19,559 births and 13,919 deaths.

Of the births 9,462 were males and 8,952 were females, making the total Birth-rate of the City equal to 31·1 per 1,000; the average of the previous ten years being 36·5.

The Distribution of the births in the different wards and districts of the City has been arranged in the following table :—

BIRTHS.

DISTRICTS AND WARDS.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		An- nual.
		Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Births
Parish.	Scotland	283	250	293	275	265	272	285	274	2197
	Vauxhall	50	41	42	34	41	45	39	43	335
	St. Paul's and Exchange..	59	45	49	53	59	38	62	61	426
	St. Anne's and Lime Street	102	122	109	111	108	103	115	101	871
	Castle Street and St. Peter's	9	10	13	8	11	12	17	9	89
	Pitt Street and Gt. George	48	57	49	63	63	54	61	59	454
	Rodney St. & Abercromby	148	153	174	146	159	141	142	148	1211
Out-Townships.	Everton	552	497	533	489	494	498	498	469	4030
	Kirkdale	305	288	283	290	300	289	327	300	2382
	West Derby	309	291	336	312	335	293	340	322	2538
	The Toxteths	503	464	512	479	506	484	474	459	3881
Parish		699	678	729	690	706	665	721	695	5583
Out-Townships		1669	1540	1664	1570	1635	1564	1639	1550	12831
City		2368	2218	2393	2260	2341	2229	2360	2245	18414

DEATHS.

Of the 14,006 deaths 7,140 were of males, and 6,866 of females; 5,873 occurred in the Parish, and 8,133 in the Out-townships.

The Death-rate of the City was equal to 23·6 per 1,000. The average of the previous ten years was 26·2 per 1,000.

The following table shows the actual number of deaths registered in the Parish and Out-townships previous to the transference to the districts from whence the patients were removed, of the deaths occurring in the Workhouses and Hospitals. The Death-rate of the Parish was equal to 30·8, and that of the Out-townships to 20·2 per 1,000 of the population.

The deaths occurred in the following districts :—

DISTRICTS.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual.
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Deaths.
Parish.	Scotland	236	217	200	191	196	205	171	176	1592
	Vauxhall	49	38	39	40	22	37	19	23	267
	St. Paul's and Exchange	58	59	51	53	65	50	64	42	442
	St. Anne's and Lime Street	94	95	123	98	86	58	79	64	697
	Castle Street and St. Peter's	16	14	12	9	11	8	5	9	84
	Pitt Street and Great George	40	52	66	36	30	36	45	34	339
	Rodney Street and Abercromby.....	80	100	99	94	67	85	75	75	675
	Parish Workhouse and Hospitals	323	215	237	200	250	144	243	165	1777
Out-Townships.	Everton	292	309	278	311	273	254	267	257	2241
	Kirkdale	190	201	161	155	172	160	157	152	1348
	West Derby.....	208	201	190	197	185	192	155	170	1498
	The Toxteths	250	345	315	360	298	317	253	315	2453
	Out-Township Hospitals	88	73	87	59	71	59	99	57	593
Parish		896	790	827	721	727	623	701	588	5873
Out-Townships		1028	1129	1031	1082	999	982	931	951	8133
City		1924	1919	1858	1803	1726	1605	1632	1539	14006

From the returns made as to the residences of persons dying in the Workhouses and Hospitals of the town, we are able to classify 2,012 of the deaths in these establishments under the Wards from whence the patients were removed, viz. :—425 under Scotland Ward, 105 under Vauxhall Ward, 48 under St. Paul's Ward, 76 under Exchange Ward, 273 under St. Anne's Ward, 77 under Lime Street Ward, 3 under Castle Street Ward, 21 under St. Peter's Ward, 65 under Pitt Street Ward, 87 under Great George's Ward, 74 under Rodney Street Ward, 91 under Abercromby Ward, 238 under the Out-township of Everton, 92 under that of Kirkdale, 170 under West Derby Ward, 77 under North Toxteth Ward, and 90 under South Toxteth Ward. This will leave unclassified 136 deaths of persons whose previous residences were either unknown or not specified ; and these, in the absence of definite information, have been placed in the Wards in proportion to the number of total deaths ; and 222 who were residents outside the City.

The results of the alterations occasioned by this re-arrangement of the deaths in the wards and districts will be shown in the following table, from which a calculated rate of mortality per 1,000 of the estimated inhabitants has been made. The rates are calculated upon a population increasing or decreasing in the same ratio as between 1871 and 1881, and may not be correct as regards the Wards, but will approximate the true rate of the whole City.

WARDS.	Annual.	
	Deaths.	Rate per 1000
Scotland	2037	31·3
Vauxhall	376	28·7
St. Paul's	263	26·3
Exchange	308	41·6
St. Anne's	802	33·3
Lime Street	255	26·1
Castle Street	13	13·2
St. Peter's	96	20·1
Pitt Street	191	27·5
Great George	305	33·1
Rodney Street	388	23·3
Abercromby	461	20·8
Everton	2504	21·0
Kirkdale	1454	18·2
West Derby	1685	21·5
North Toxteth	1461	18·0
South Toxteth	1185	27·0
Hospitals (Residences outside City)	222	—
	14006	23·6

The following table shows the natural increase or decrease of population, and the number of births and deaths during the year 1887, in the several districts of the City :—

DISTRICTS AND WARDS.	Births.	Deaths.	Increase.	Decrease
Scotland	2197	2037	160	..
Vauxhall	335	376	..	41
St. Paul's and Exchange	426	571	..	145
St. Anne's and Lime Street	871	1057	..	186
Castle Street and St. Peter's	89	109	..	20
Pitt Street and Gt. George.. .. .	454	496	..	42
Rodney Street and Abercromby	1211	849	362	..
Everton	4030	2504	1526	..
Kirkdale	2382	1454	928	..
West Derby	2538	1685	853	..
The Toxteths.. .. .	3881	2646	1235	..
City	18414	13784	4630	..
Hospitals (Residences outside City) .. .. .	..	222	..	..
Total.. .. .	18414	14006	4408	..

The following table, taken from the Registrar-General's Reports, will enable us to compare the mortality of Liverpool with thirty of the large towns of the United Kingdom :—

TOWNS.	Estimated Popula- tion in the middle of the year 1887.	Births in 52 Weeks, ending 31st Dec., 1887.	Deaths in 52 Weeks, ending 31st Dec., 1887.	Annual Rate to 1,000 of Population.		Population on Acre.
				Births.	Deaths.	
London	4215192	133075	82208	31·6	19·5	56·0
Brighton	118186	3035	1988	25·7	16·8	47·0
Portsmouth	137917	5059	2682	36·7	19·4	31·9
Norwich	92848	3138	1891	33·8	20·3	12·4
Plymouth	77127	2425	1748	31·4	22·6	52·5
Bristol	223695	6628	4546	29·6	20·3	48·3
Wolverhampton	80847	2675	1746	33·1	21·6	23·8
Birmingham	441095	13963	8668	31·7	19·6	52·5
Leicester	143153	4679	2785	32·7	19·4	44·7
Nottingham	224230	7438	4181	33·2	18·6	22·5
Derby	94006	2810	1605	29·9	17·0	27·2
Birkenhead	97703	3161	2044	32·4	20·9	25·4
Bolton	112354	3639	2386	32·4	21·2	46·7
Manchester	377529	13501	10786	35·8	28·6	87·9
Salford	218658	6956	4827	31·8	22·1	42·3
Oldham	134158	4183	3188	31·2	23·7	28·4
Blackburn	116844	4164	2967	35·7	25·4	16·8
Preston	102283	3920	2846	38·4	27·8	27·5
Huddersfield	90034	2485	2063	27·6	22·9	8·6
Halifax	79207	2245	1654	28·3	20·9	21·0
Bradford	224507	6203	4460	27·6	19·8	20·8
Leeds	345080	11446	7241	33·2	21·0	16·0
Sheffield	316288	10386	6808	32·8	21·5	16·1
Hull	196855	6443	3776	32·7	19·1	24·9
Sunderland	129684	4471	2549	34·5	19·6	42·8
Newcastle-on-Tyne	157048	6121	3953	39·0	25·2	29·2
Cardiff	104580	4288	2285	41·0	21·8	14·2
Edinburgh	258629	7562	5097	29·2	19·7	43·8
Glasgow	524039	19328	12128	36·9	23·1	85·8
Dublin	353082	9840	10777	27·9	30·5	14·3
LIVERPOOL	592991	18414	14006	31·1	23·6	113·8

The deaths of Infants below five years of age amounted to 6,218, and thus comprised 44·4 per cent. of the whole deaths ; the average number for the preceding ten years was 6,658, and the average percentage 45·7. The

deaths of Infants below one year of age amounted to 3,420, or 18·6 per cent. of all the children born within the City, died before attaining the age of twelve months.

The first of the following tables shows the districts where Infantile Mortality was relatively and absolutely greatest, the second table illustrates the influence of age on the death-rate of the City, and the third table places, in one connected view, the pathological history of the death registry.

WARDS.		Quarters.				Annual.	Per Cent- age of Deaths under 5 years to Total Deaths.	Per Cent- age of Deaths under 1 year to Total Births.
		March.	June.	Sept.	Dec.			
Scotland	{ Total Deaths..	453	391	401	347	1592	} 53·1	20·6
	{ Below 5 years..	239	205	250	151	845		
Vauxhall	{ Total Deaths..	87	79	59	42	267	} 54·7	23·6
	{ Below 5 years..	42	51	37	16	146		
St. Paul's	{ Total Deaths..	55	43	61	54	213	} 42·3	} 22·1
	{ Below 5 years..	24	25	18	23	90		
Exchange	{ Total Deaths..	62	61	54	52	229	} 41·5	}
	{ Below 5 years..	22	30	25	18	95		
St. Anne's	{ Total Deaths..	142	160	108	111	521	} 49·3	} 21·4
	{ Below 5 years..	62	84	67	44	257		
Lime Street	{ Total Deaths..	47	61	36	32	176	} 40·9	}
	{ Below 5 years..	17	27	15	13	72		
Castle Street	{ Total Deaths..	17	1	2	..	10	} 30·0	}
	{ Below 5 years..	2	..	1	..	3		
St. Peter's	{ Total Deaths..	23	20	17	14	74	} 39·2	} 19·1
	{ Below 5 years..	8	10	9	2	29		
Pitt Street	{ Total Deaths..	33	37	23	31	124	} 46·8	}
	{ Below 5 years..	13	18	14	13	58		
Great George	{ Total Deaths..	59	65	43	48	215	} 46·5	} 21·6
	{ Below 5 years..	30	29	25	16	100		
Rodney Street..	{ Total Deaths..	81	99	69	61	310	} 40·6	}
	{ Below 5 years..	31	53	29	13	126		
Abercromby....	{ Total Deaths..	99	94	83	89	365	} 43·0	} 12·6
	{ Below 5 years..	38	48	44	27	157		
Parish Work- house&Hospitals	{ Total Deaths..	538	437	394	408	1777	} 17·6	..
	{ Below 5 years..	81	93	79	59	312		
Everton..	{ Total Deaths..	601	589	527	524	2241	} 52·3	17·1
	{ Below 5 years..	320	307	308	236	1171		
Kirkdale	{ Total Deaths..	391	316	332	309	1348	} 51·7	16·3
	{ Below 5 years..	202	166	195	134	697		
West Derby	{ Total Deaths..	409	387	377	325	1498	} 51·1	17·1
	{ Below 5 years..	207	212	213	133	765		
North Toxteth..	{ Total Deaths..	348	373	326	323	1370	} 48·0	} 17·1
	{ Below 5 years..	149	205	187	117	658		
South Toxteth..	{ Total Deaths..	247	302	289	245	1083	} 54·8	}
	{ Below 5 years..	120	190	171	113	594		
Out-Township Hospitals	{ Total Deaths..	161	146	130	156	593	} 7·3	..
	{ Below 5 years..	12	9	11	11	43		
Parish ..	{ Total Deaths..	1686	1548	1350	1289	5873	} 39·0	22·1
	{ Below 5 years..	609	673	613	395	2290		
Out-Townships	{ Total Deaths..	2157	2113	1981	1882	8133	} 48·3	17·0
	{ Below 5 years..	1010	1089	1085	744	3928		
City ..	{ Total Deaths..	3843	3661	3331	3171	14006	} 44·4	18·6
	{ Below 5 years..	1619	1762	1698	1139	6218		

AGES.	Quarters.				Annual.	
	March.	June.	Sept.	Dec.	Deaths.	Rate per 1000 of population.
Deaths below 1 year of age.. ..	777	836	1134	673	3420	5·8
„ between 1 year and 5	842	926	564	466	2798	4·7
„ „ 5 „ 20	292	289	255	255	1091	1·8
„ „ 20 „ 60	1214	1101	951	1161	4427	7·5
„ above 60 years	718	508	427	616	2269	3·8
„ at ages unknown .. ..	..	1	..	..	1	..
„ at all ages	3843	3661	3331	3171	14006	23·6

The Registrars' Returns show that there were 13 deaths (9 of women and 4 men) at the age of 90 and upwards, viz., 4 females at 90, 1 female at 91, 2 females at 92, 1 male at 93, 2 males at 94, 1 female and 1 male at 97, and 1 female at 98.

CLASSES.	QUARTERS.				YEAR 1887.
	March.	June.	Sept.	Dec.	
1. Zymotic Diseases.. ..	687	765	849	371	2672
2. Diseases of Uncertain Seat	113	103	99	87	402
3. Tubercular Diseases	397	446	413	350	1606
4. Diseases of Brain, &c.	474	449	399	398	1720
5. „ of Heart, &c.	203	211	173	207	794
6. „ of Lungs, &c.	1106	888	452	964	3410
7. „ of Stomach, &c.	156	165	241	140	702
8. „ of Kidneys, &c.	71	63	71	80	285
9. Childbirth, Diseases of Uterus, &c.	25	19	22	17	83
10. Rheumatism, Diseases of the Joints, &c.	16	15	12	16	59
11. Diseases of the Skin, Cellular Tissue, &c.	18	19	15	19	71
12. Malformations	9	10	11	5	35
13. Premature Birth	48	61	57	55	221
14. Atrophy and Debility	209	191	261	161	822
15. Old Age	126	94	93	92	405
16. Privation, Cold, &c. .. ..	..	1	3	1	5
17. Inquests	171	150	152	195	668
Causes not specified	14	11	8	13	46
All Causes	3843	3661	3331	3171	14006
Total Zymotics	687	765	849	371	2672
Smallpox .. ..	..	..	1	..	1
Measles	272	358	23	8	661
Scarlatina	88	50	67	116	321
Hooping Cough	113	177	101	38	429
Diarrhoea	32	37	503	47	619
Fever	53	45	50	46	194

ZYMOTICS.

This class of diseases occasioned 2,672 deaths during the year 1887, and accounted for 19·1 per cent. of the total mortality within the City during the same period. The average number of deaths from these diseases for the preceding ten years was 2,859, and the percentage death rate for 1887 was 0·5 per cent. less than the proportional rate of zymotic deaths to deaths from all causes during the preceding decennial period. The following table shows the localities and the periods of their fatal prevalence :—

WARDS, &c.	Deaths from all Causes.	ZYMOTICS.				
		Quarters.				Per Centage of Zymotic Deaths to Deaths from all Causes.
		March.	June.	Sept.	Dec.	
Scotland	1592	98	80	129	41	21·9
Vauxhall	267	11	14	11	2	14·2
St. Paul's	213	12	8	6	12	17·8
Exchange	229	10	7	12	2	13·5
St. Anne's	521	14	23	32	6	14·4
Lime Street	176	8	16	10	2	20·5
Castle Street	10	..	..	2	..	20·0
St. Peter's	74	2	4	4	2	16·2
Pitt Street	124	1	8	6	3	14·5
Great George	215	12	11	8	3	15·8
Rodney Street	310	16	27	20	6	22·3
Abercromby	365	12	24	18	6	16·4
Liverpool Workhouse Hospital	1319	54	52	38	35	13·6
Royal Infirmary	179	..	1	2	1	2·2
Children's Infirmary	91	7	4	3	1	16·5
Infants' Hospital	16	..	1	2	1	25·0
Lying-in Hospital	6	..	..	..	..	..
Hahnemann Hospital	4	..	..	..	..	..
Consumption Hospital	13	..	..	..	..	..
North Hospital	149	..	..	..	2	1·3
Hospital for Women	12	..	..	..	..	..
Stanley Hospital	76	..	..	1	..	1·3
Royal South Hospital	187	6	1	2	3	6·4
Netherfield Road Hospital	25	10	5	7	1	92·0
West Derby Union Hospital	285	2	1	4	2	3·2
City Hospital, Park Hill	8	..	..	1	6	87·5
Everton	2241	128	112	152	55	19·9
Kirkdale	1348	78	77	105	50	23·0
West Derby	1498	97	87	82	42	20·6
North Toxteth	1370	62	101	96	52	22·7
South Toxteth	1083	47	101	96	35	25·8
Parish	5873	257	280	303	125	16·4
Out-Townships	8133	430	485	546	246	21·0
City	14006	687	765	849	371	19·1

FEVER.

Fever accounted for 194 deaths within the City of Liverpool, or for 110 in the Parish and 84 in the Out-Townships, being a decrease of 4 on the previous year. (The average number of deaths for the preceding ten years was 327.) The rate of its mortality was equal to 0·3 per 1,000 of the estimated population. Its percentage rate relatively to deaths from all causes was 1·3 during the first, 1·2 during the second, 1·5 during the third, and 1·5 during the fourth

quarter of the year. Its annual rate relatively to deaths from all causes was 1·4 per cent., and relatively to deaths from zymotic causes 7·3 per cent. Its deaths included 111 males and 83 females; 51 persons below the age of 15, 71 between the ages of 15 and 30, and 72 above the age of 30.

Under the term Fever every form of continued fever is included; but the registers of deaths attribute 1 case to gastric fever, 97 to typhoid fever, 32 to enteric fever, 1 to remittent fever, 52 to typhus, 4 to fever, 3 to febris, and under that of febricula 4 deaths.

The following tables are in themselves sufficiently explanatory. The first compares the averages of deaths from fever during the preceding ten years with those during 1887; the second and third tables show the districts of the town and the periods of the year in which all forms of continued fever were most fatally prevalent; the fourth marks in streets the habitats of the disease, and the remaining tables the occupations and positions of its victims.

WARDS.						Exact Average of Fever Deaths for Pre- ceding Ten Years.	Deaths from Fever during the Year 1887.
Scotland	..	..	..	..	..	28	15
Vauxhall	..	..	..	.	..	6	..
St. Paul's	..	..	..	.	..	5	4
Exchange	..	..	..	..	..	4	4
St. Anne's	..	..	..	..	.	11	5
Lime Street	..	..	..	..	..	2	3
Castle Street..	.	..	..	..	..	1	..
St. Peter's	..	..	..	..	..	1	..
Pitt Street	..	..	..	..	..	2	..
Great George..	..	..	..	..	..	2	..
Rodney Street	..	..	..	..	..	3	5
Abercromby	..	..	..	..	..	4	3
Everton	..	..	..	..	}	53	23
Kirkdale	..	..	..	..			13
West Derby	..	..	..	..	..	17	12
North Toxteth	..	..	..	..	..	16	8
South Toxteth	..	..	..	..	..	17	9
Hospital Deaths	..	..	..	..	..	155	90
Total	..	..	..	..	..	327	194

In the above table the averages have been calculated without making allowance for increase of population.

DEATHS FROM FEVER DURING THE YEAR 1887.

ARDS.	January.				February.				March.				April.		May.				June.				July.		Quarter.	
	January.				February.				March.				April.		May.				June.				July.			
	8	15	22	29	5	12	19	26	5	12	19	26	9	16	23	30	7	14	21	28	4	11	18	25		2	7
Scotland ..	1				1			1					3							1				1		
Vauxhall ..		1						1																		
St. Paul's ..																										
Exchange ..				1							1														1	
St. Anne's ..																										
Lime Street ..																										
Castle Street ..																										
St. Peter's ..																										
Pitt Street ..																										
Great George ..																										
Rodney Street ..	1			1	2	1	1				3							1	1							
Abercromby ..		1	2		2											1										
Everton ..	1	1																								
Kirkdale ..	1																									
West Derby ..		1																								
North Toxteth ..	1																									
South Toxteth ..	1	2			1	1	1																			
Hospitals (Residences out of City) ..																										
Hospitals (Residences unknown) ..																										
Total ..	9	7	2	5	6	6	2	2	3	3	6	1	1	2	3	2	2	12	2	3	1	5	2	6	3	45

WARDS.	July.				August.				September.				October.				November.				December.				Quarter.		Year.	
	July.				August.				September.				October.				November.				December.				Quarter.			
	9	16	23	30	6	13	20	27	3	10	17	24	8	15	22	29	5	12	19	26	3	10	17	24	31	10		
Scotland ..	1	2			1			1	2												2					10		
Vauxhall ..																										1		
St. Paul's ..			1																							1		
Exchange ..		1																								1		
St. Anne's ..																										1		
Lime Street ..																										1		
Castle Street ..																										1		
St. Peter's ..				1																						1		
Pitt Street ..																										1		
Great George ..																										1		
Rodney Street ..																										1		
Abercromby ..																										1		
Everton ..	1				1																					1		
Kirkdale ..																										1		
West Derby ..																										1		
North Toxteth ..																										1		
South Toxteth ..																										1		
Hospitals (Residences out of City) ..																										1		
Hospitals (Residences unknown) ..																										1		
Total ..	2	3	3	4	5	3		3	6	4	6	3	5	3	3	7	1	3	4	5	5	3	1	3	3	46		

DEATHS FROM FEVER.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	TOTAL
Scotland	{	Below 5 years ..	..	..	..	..	..	..	1	..	1	..	1
		Above 5 years ..	..	1	2	1	2	3	3	2	7	7	14
Vauxhall	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{	Below 5 years ..	1	..	..	..	..	..	..	..	1	..	1
		Above 5 years ..	..	..	..	..	1	1	1	..	2	1	3
Exchange	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	1	1	..	..	1	1	..	2	2	4
St. Anne's	{	Below 5 years ..	1	..	..	..	..	..	..	..	1	..	1
		Above 5 years ..	1	1	..	..	1	..	1	..	3	1	4
Lime Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	1	..	1	1	..	..	..	..	2	1	3
Castle Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street.. ..	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	1	1	1	..	..	1	1	..	3	2	5
Abercromby	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	1	1	..	..	..	..	1	1	2	3
Parish Workhouse and Hospitals	{	Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
		Above 5 years ..	12	6	11	9	11	7	9	5	43	27	70
Out-Township Hospitals	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	2	6	1	..	2	..	6	2	11	8	19
Everton	{	Below 5 years ..	1	1	..	..	..	1	..	..	1	2	3
		Above 5 years ..	1	2	1	2	4	3	5	2	11	9	20
Kirkdale	{	Below 5 years ..	..	..	..	..	..	..	1	1	1	1	2
		Above 5 years ..	1	2	2	1	1	2	1	1	5	6	11
West Derby	{	Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
		Above 5 years ..	1	3	..	3	1	1	2	..	4	7	11
North Toxteth	{	Below 5 years ..	..	..	1	..	1	..	..	..	2	..	2
		Above 5 years ..	3	..	..	1	1	1	..	..	4	2	6
South Toxteth.. ..	{	Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
		Above 5 years ..	1	1	2	3	1	..	..	..	4	4	8
Parish	{	Below 5 years ..	2	..	..	..	1	..	1	..	4	..	4
		Above 5 years ..	15	11	17	11	15	13	16	8	63	43	106
Out-Townships	{	Below 5 years ..	1	1	1	..	2	2	1	1	5	4	9
		Above 5 years ..	9	14	6	10	10	7	14	5	39	36	75
City	{	Below 5 years ..	3	1	1	..	3	2	2	1	9	4	13
		Above 5 years ..	24	25	23	21	25	20	30	13	102	79	181

List of Streets in the City wherein Two or more Deaths from Fever
occurred during the Year 1887.

STREETS IN THE PARISH.	HOUSES.		Total.			STREETS IN THE OUT-TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.					Front.	Court.	
Ambrose Place ..	2	..	2			Back Great Mersey ..	2	..	2
Ashfield	2	..	2			Clive	1	1	2
Athol	2	..	2			Field	2	..	2
Blenheim .. ..	..	2	2			Jenkinson	1	1	2
Chapel Lane .. ..	..	2	2			Kensington	2	..	2
Devon	2	..	2			Mann	1	2	3
Great Crosshall ..	4	..	4			Northcote	2	..	2
Juvenal Place	2	..	2			Pecksniff	2	..	2
Marybone	2	..	2			Shaftesbury	1	1	2
Menai	2	..	2						
Naylor .. ..	..	2	2						
Russell Place	2	..	2						
ThurLOW	2	..	2						
Trowbridge	2	..	2						
Upper Parliament ..	3	..	3						

Occupations of Persons who (either themselves or members of their family) have died from Fever in the Workhouses or Hospitals of the City, tabulated into Wards from whence they came, during the Year 1887.

LIVERPOOL PARISH WORKHOUSE.

OCCUPATIONS.				WARDS.																TOTAL.		
				Scotland.	Vauxhall.	St. Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.		South Toxteth.	
Labourers	9	1	..	2	5	1	..	1	..	..	7	1	4	3	..	..	4	38
Tradesmen	5	..	..	..	..	1	..	..	..	..	..	3	4	..	4	..	3	20
Seamen	1	..	..	..	..	1	1	..	..	..	..	..	1	4
Servants	2	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	5
Professions & Mercantile	1	..	..	..	..	..	..	..	1
Males	12	..	..	1	3	..	..	1	..	2	5	3	3	2	3	..	7	42
Females	4	1	..	2	3	2	..	..	..	..	3	1	6	1	2	..	1	26
Total	16	1	..	3	6	2	..	1	..	2	8	4	9	3	5	..	8	68

EVERTON HOSPITAL (NETHERFIELD ROAD).

OCCUPATIONS.				WARDS.						TOTAL.
				Scotland.	Vauxhall.	Abercromby.	Everton.	Kirkdal.	South Toxteth.	
Labourers .. ..	..	..	..	1	1	..	1	..	1	4
Tradesmen .. ..	..	..	..	..	..	..	1	1	..	2
Servants .. ..	..	..	..	..	..	1	..	..	..	1
Males .. ..	..	..	..	..	..	..	1	1	..	2
Females .. ..	..	..	..	1	1	1	1	..	1	5
Total .. ..	..	..	..	1	1	1	2	1	1	7

CITY HOSPITAL (PARK HILL).

OCCUPATIONS.					WARDS.				Residence outside the City.	TOTAL.
					Lime Street.	Everton.	Kirkdale.	South Toxteth.		
Labourers	..	..	..	..	1	1	1	1	..	4
Tradesmen	..	..	..	..	..	..	1	..	..	1
Seamen	..	..	..	..	..	..	..	..	1	1
Males	..	..	..	..	..	1	2	1	1	5
Females	..	..	..	..	1	..	..	..	..	1
Total	..	..	..	..	1	1	2	1	1	6

*OTHER INSTITUTIONS.

OCCUPATIONS.					WARDS.					Residence outside the City.	TOTAL.
					Abercromby.	Everton.	West Derby.	North Toxteth.	South Toxteth.		
Labourers	..	..	..	..	..	1	..	..	3	..	4
Tradesmen	..	..	..	..	1	1	1	1	..	..	4
Seamen	..	..	..	..	..	..	..	..	..	1	1
Males	..	..	..	..	..	2	1	1	1	1	6
Females	..	..	..	..	1	..	..	..	2	..	3
Total	..	..	..	..	1	2	1	1	3	1	9

*ROYAL INFIRMARY	2	} 9 deaths.
CHILDREN'S INFIRMARY	1	
ROYAL SOUTHERN HOSPITAL	3	
WEST DERBY UNION HOSPITAL (MILL ROAD)	3	

Occupations of Persons who (either themselves or members of their family) have died from Fever in the different Wards of the City during the Year 1887. (Not included in the foregoing Tables of Deaths in Work-houses and Hospitals.)

OCCUPATIONS.	WARDS.																	TOTAL.
	Scotland.	Vauxhall	St. Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.	
Labourers	7	..	1	1	2	..	..	..	..	..	2	1	9	6	2	3	6	40
Tradesmen	7	..	3	2	3	2	..	..	..	..	1	2	9	5	9	2	2	47
Seamen .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	..	3
Professions and Mercantile	1	..	..	..	..	1	..	..	..	..	2	..	2	1	1	2	..	10
Servants .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	2
Police Constables .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Unknown .. .. .	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Males	8	..	3	2	4	2	..	..	..	..	3	1	12	6	5	6	4	56
Females	7	..	1	2	1	1	..	..	..	..	2	2	11	7	7	2	5	48
Total	15	..	4	4	5	3	..	..	..	..	5	3	23	13	12	8	9	104

SCARLATINA.

Scarlatina accounted during the year for 321 deaths, or for 89 in the Parish and 232 in the Out-Townships. (The average number of deaths for the preceding ten years was 424.) The rate of its mortality was equal to 0·5 per 1000 of the estimated population. Its rate relatively to deaths from all causes was 2·3 per cent. in the first quarter, 1·4 in the second, 2·0 in the third, and 3·7 in the fourth quarter of the year; its annual rate relatively to all deaths was 2·7 per cent., and relatively to deaths from zymotic causes 14·3 per cent.

The first of the following tables gives a statistical history of the mortality of Scarlatina during the year 1887 ; the second is a record of the streets of the City wherein two or more deaths occurred from that disease.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{	Below 5 years ..	2	3	1	1	1	7	2	4	6	15	21
		Above 5 years ..	..	3	1	2	..	1	1	2	2	8	10
Vauxhall	{	Below 5 years ..	1	1	1	1	..	..	..	..	2	2	4
		Above 5 years ..	..	..	..	1	..	..	..	..	..	1	1
St. Paul's	{	Below 5 years ..	1	..	..	..	..	..	1	2	2	2	4
		Above 5 years ..	1	..	..	..	..	..	4	1	5	1	6
Exchange	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
St. Anne's	{	Below 5 years ..	..	..	1	..	1	..	..	..	2	..	2
		Above 5 years ..	..	1	..	..	..	..	..	..	..	1	1
Lime Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	1	..	..	..	..	..	1	..	1
Castle Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	{	Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street.. ..	{	Below 5 years ..	..	1	1	..	..	..	1	..	2	1	3
		Above 5 years ..	2	..	..	..	..	1	..	..	2	1	3
Abercromby	{	Below 5 years ..	..	1	1	..	..	..	1	..	2	1	3
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{	Below 5 years ..	2	3	1	..	..	..	6	1	9	4	13
		Above 5 years ..	1	3	..	2	1	2	2	4	4	11	15
Out-Township Hospitals	{	Below 5 years ..	..	..	2	..	3	2	1	..	6	2	8
		Above 5 years ..	2	..	2	1	..	2	..	..	4	3	7
Everton.. ..	{	Below 5 years ..	7	10	2	3	8	6	3	3	20	22	42
		Above 5 years ..	3	5	2	2	2	2	1	1	8	10	18
Kirkdale	{	Below 5 years ..	6	4	4	1	..	..	6	11	16	16	32
		Above 5 years ..	1	1	1	..	3	1	4	3	9	5	14
West Derby	{	Below 5 years ..	4	8	2	1	1	..	1	3	8	12	20
		Above 5 years ..	1	1	..	2	1	2	..	..	2	5	7
North Toxteth.. ..	{	Below 5 years ..	..	4	..	1	3	..	3	8	6	13	19
		Above 5 years ..	1	..	1	..	3	1	5	9	10	10	20
South Toxteth.. ..	{	Below 5 years ..	3	..	3	4	7	1	12	6	25	11	36
		Above 5 years ..	1	..	..	1	3	1	2	1	6	3	9
Parish	{	Below 5 years ..	6	9	6	2	2	8	11	7	25	26	51
		Above 5 years ..	4	7	2	5	1	4	8	7	15	23	38
Out-Townships	{	Below 5 years ..	20	26	13	10	22	9	26	31	81	76	157
		Above 5 years ..	9	7	6	6	12	9	12	14	39	36	75
City	{	Below 5 years ..	26	35	19	12	24	17	37	38	106	102	208
		Above 5 years ..	13	14	8	11	13	13	20	21	54	59	113

List of Streets in the City wherein Two or more Deaths from
Scarlatina occurred during the Year 1887.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT- TOWNSHIPS.	HOUSES.		Total
	Front	Court.			Front.	Court.	
Athol	2	..	2	Great Homer ..	1	2	3
Chesnut	2	..	2	Grinshill.. ..	2	..	2
Circus	2	..	2	Gwydir	2	..	2
Dryden	2	1	3	Holt	2	..	2
Edmund	1	2	3	Hughson	2	1	3
Gascoyne	1	1	2	Langsdale	2	..	2
Hornby .. ..	..	4	4	Major	2	..	2
Lonsdale	3	..	3	Mann .. ..	..	3	3
Norris	2	..	2	Mornington	2	..	2
Paul	2	..	2	Netherfield Road North	3	..	3
Penrhyn .. ..	..	2	2	Park Road	4	1	5
Scotland Road ..	2	..	2	Pengwern	2	..	2
Shannon	2	..	2	Penrose	2	..	2
Taylor	2	..	2	Phythian	2	..	2
Upper Milk	2	1	3	Potter	3	..	3
STREETS IN THE OUT- TOWNSHIPS.				Prince Edwin .. ..	..	2	2
Admiral Grove ..	3	.	3	Priory Hill	2	..	2
Albion	2	..	2	Rankin	1	3	4
Arlington	2	..	2	Robsart	1	2	3
Aspinall	2	..	2	Rockley	2	..	2
Beatrice	5	..	5	Roper .. ..	..	3	3
Beaufort	3	..	3	Seacome	2	..	2
Blythe	2	..	2	Sefton	2	..	2
Celia	2	..	2	Smith	2	..	2
Clive	1	2	3	Southampton ..	2	..	2
Essex	6	..	6	Tegid	2	..	2
Farnworth	2	..	2	Tyne	2	..	2
Fountains Road ..	2	.	2	Warwick	3	..	3
Goring	2	..	2	Wavertree Road ..	..	2	2
				Wellington Road ..	2	..	2
				Westminster Road ..	2	..	2
				Wilson	2	..	2

MEASLES

Occasioned 661 deaths, of which 225 occurred in the Parish, and 436 in the Out-Townships. (The average number of deaths for the preceding ten years was 476) Its percentage death-rate relatively to deaths from all causes was 7·1 in the first quarter of the year, 9·8 in the second, 0·7 in the third, and 0·3 in the fourth. Its annual percentage rate relatively to deaths from all causes was 4·7, and relatively to deaths from Zymotic causes 24·7.

WARDS.			QUARTERS.								YEAR.			
			March.		June.		Sept.		Dec.					
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.	
Scotland	..	{	Below 5 years	17	22	17	15	1	1	..	..	35	38	73
		{	Above 5 years	3	1	..	2	1	1	..	..	4	4	8
Vauxhall	..	{	Below 5 years	3	3	4	3	..	..	..	..	7	6	13
		{	Above 5 years	..	1	..	1	..	..	..	..	..	2	2
St. Paul's	..	{	Below 5 years	1	3	2	4	..	..	..	..	3	7	10
		{	Above 5 years	..	2	..	..	..	..	..	..	..	2	2
Exchange	..	{	Below 5 years	3	2	1	1	..	..	..	..	4	3	7
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	..	{	Below 5 years	3	5	4	8	..	..	..	..	7	13	20
		{	Above 5 years	..	..	2	..	..	..	..	..	2	..	2
Lime Street	..	{	Below 5 years	2	1	4	1	..	..	..	..	6	2	8
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Castle Street	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{	Below 5 years	1	..	..	3	..	..	..	..	1	3	4
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	{	Below 5 years	..	..	4	2	..	..	..	..	4	2	6
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	..	{	Below 5 years	7	2	3	1	..	..	..	..	10	3	13
		{	Above 5 years	1	..	..	..	..	..	..	..	1	..	1
Rodney Street..	..	{	Below 5 years	3	6	4	5	1	1	..	..	8	12	20
		{	Above 5 years	1	..	..	1	..	..	..	..	1	1	2
Abercromby	..	{	Below 5 years	3	..	7	5	..	..	..	..	10	5	15
		{	Above 5 years	..	..	..	..	..	..	1	..	1	..	1
Parish Workhouse and Hospitals	..	{	Below 5 years	5	4	5	..	..	2	..	..	10	6	16
		{	Above 5 years	1	1	..	..	..	..	..	..	1	1	2
Out-Township Hospitals	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Everton	..	{	Below 5 years	19	27	22	18	2	2	..	1	43	48	91
		{	Above 5 years	5	3	2	2	..	1	..	..	7	6	13
Kirkdale	..	{	Below 5 years	13	11	15	9	5	1	..	..	33	21	54
		{	Above 5 years	2	2	1	1	..	..	..	..	3	3	6
West Derby	..	{	Below 5 years	23	15	20	29	..	..	1	3	44	47	91
		{	Above 5 years	1	1	1	1	..	..	..	..	2	2	4
North Toxteth	..	{	Below 5 years	12	10	29	32	1	2	..	2	42	46	88
		{	Above 5 years	1	2	2	4	..	..	..	..	3	6	9
South Toxteth	..	{	Below 5 years	9	6	31	29	..	1	..	..	40	36	76
		{	Above 5 years	1	2	..	1	..	..	..	..	1	3	4
Parish	..	{	Below 5 years	48	48	55	48	2	4	..	..	105	100	205
		{	Above 5 years	6	5	2	4	1	1	1	..	10	10	20
Out-Townships	..	{	Below 5 years	76	69	117	117	8	6	1	6	202	198	400
		{	Above 5 years	10	10	6	9	..	1	..	..	16	20	36
City	..	{	Below 5 years	124	117	172	165	10	10	1	6	307	298	605
		{	Above 5 years	16	15	8	13	1	2	1	..	26	30	56

DIARRHŒA

Accounted for 619 deaths, or for 230 in the Parish, and 389 in the Out-townships. (The average number of deaths for the preceding ten years was 667). Its percentage death-rate relatively to deaths from all causes was 0·8 in the first quarter of the year, 1·0 in the second, 15·1 in the third, and 1·5 in the fourth quarter. Its annual percentage rate relatively to deaths from all causes was 4·4, and relatively to deaths from Zymotic causes 23·2.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland ..	{	Below 5 years ..	4	..	3	3	38	39	1	1	46	43	89
		Above 5 years ..	1	..	2	..	2	3	..	4	5	7	12
Vauxhall ..	{	Below 5 years ..	1	..	..	1	3	5	..	..	4	6	10
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's ..	{	Below 5 years ..	..	1	..	..	3	..	1	..	4	1	5
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange ..	{	Below 5 years ..	..	1	..	..	5	3	..	..	5	4	9
		Above 5 years ..	1	..	..	..	..	..	..	..	1	..	1
St. Anne's ..	{	Below 5 years ..	..	..	..	..	15	8	..	..	15	8	23
		Above 5 years ..	..	..	..	..	..	2	..	..	..	2	2
Lime Street ..	{	Below 5 years ..	..	1	3	..	3	1	..	..	6	2	8
		Above 5 years ..	..	..	..	..	1	1	1	..	2	1	3
Castle Street ..	{	Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
		Above 5 years ..	..	..	..	..	1	..	..	..	1	..	1
St. Peter's ..	{	Below 5 years ..	..	..	..	..	1	1	..	1	1	2	3
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street ..	{	Below 5 years ..	..	..	..	..	2	2	..	1	2	3	5
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George ..	{	Below 5 years ..	..	..	..	..	2	1	..	..	2	1	3
		Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
Rodney Street..	{	Below 5 years ..	..	..	1	1	6	6	1	..	8	7	15
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby ..	{	Below 5 years ..	..	..	1	..	5	5	..	2	6	7	13
		Above 5 years ..	..	..	..	..	..	1	..	..	..	1	1
Parish Workhouse and Hospitals ..	{	Below 5 years ..	2	1	..	1	4	1	..	1	6	4	10
		Above 5 years ..	5	2	..	2	2	3	1	..	8	7	15
Out-Township Hospitals ..	{	Below 5 years ..	..	1	..	..	..	..	..	..	..	1	1
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton ..	{	Below 5 years ..	..	1	3	2	38	39	4	5	45	47	92
		Above 5 years ..	1	..	..	1	4	3	..	..	5	4	9
Kirkdale ..	{	Below 5 years ..	..	1	3	1	31	36	3	1	37	39	76
		Above 5 years ..	..	1	..	..	2	5	..	2	2	8	10
West Derby ..	{	Below 5 years ..	2	..	2	1	26	20	2	5	32	26	58
		Above 5 years ..	..	..	..	..	1	3	..	..	1	3	4
North Toxteth ..	{	Below 5 years ..	1	1	2	..	22	30	3	2	28	33	61
		Above 5 years ..	..	1	..	..	3	2	..	..	3	3	6
South Toxteth..	{	Below 5 years ..	1	1	..	2	30	27	..	1	31	31	62
		Above 5 years ..	..	..	1	1	1	4	1	2	3	7	10
Parish ..	{	Below 5 years ..	7	4	8	6	87	73	3	6	105	89	194
		Above 5 years ..	7	2	2	2	6	10	2	5	17	19	36
Out-Townships ..	{	Below 5 years ..	4	5	10	6	147	152	12	14	173	177	350
		Above 5 years ..	1	2	1	2	11	17	1	4	14	25	39
City ..	{	Below 5 years ..	11	9	18	12	234	225	15	20	278	266	544
		Above 5 years ..	8	4	3	4	17	27	3	9	31	44	75

List of Streets in the City wherein Three or more Deaths from
Diarrhœa occurred during the Year 1887.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT- TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Beau	2	1	3	Beaufort	4	..	4
Burlington	2	3	5	Combermere .. ..	..	3	3
Eldon	4	..	4	Crown	2	1	3
Gascoyne .. ..	..	3	3	Devonshire Place .. ..	..	3	3
Hopwood	5	..	5	Elias	3	..	3
Hornby	1	3	4	Essex	3	..	3
Knight	2	1	3	Mann	2	2	4
Newsham	2	1	3	Mill	7	..	7
Oakes	3	..	3	Robsart	3	1	4
Paget	3	..	3	Rokeby	5	..	5
Pembroke .. ..	..	3	3	Rosalind	3	..	3
Portland.. ..	4	..	4	St. John's Road	3	..	3
Richmond Row.. ..	2	4	6	Seacome	3	..	3
Woodstock	1	2	3	Stanley Road	3	..	3
				Toxteth	3	.	3
				Upper Parliament	7	..	7
				Walton Lane	3	..	3
				Walton Road '	3	..	3

DIARRHŒA IN DATES OF DEATH, 1887.

DATE. June.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	..	29·950	53·0	0·052	1·5	478	E
2	1	29·812	54·3	0·332	6·1	421	ENE
3	..	29·778	51·5	0·940	14·5	204	NNE
4	..	29·913	56·4	..	..	131	WNW
5	1	30·063	59·6	..	..	128	NW & SW
6	1	30·055	61·8	..	..	188	SSW
7	..	29·902	58·8	0·094	1·2	447	SSW
8	..	29·955	58·1	..	..	347	SW & W
9	..	30·131	56·3	..	..	550	W
10	1	30·405	56·6	..	..	295	WNW
11	..	30·337	60·4	..	..	253	WSW & S
12	..	30·137	62·4	..	..	353	WSW
13	..	30·088	65·1	..	..	215	WSW
14	1	30·202	64·4	..	..	157	NW & W
15	..	30·314	61·7	..	..	227	NW
16	1	30·343	66·6	..	..	109	NW & VAR
17	..	30·317	68·0	..	..	353	ESE
18	..	30·301	70·5	..	..	197	ESE
19	..	30·267	65·2	..	..	210	WNW & VAR
20	3	30·375	56·6	..	..	386	E
21	..	30·409	61·7	..	..	213	NW & E
22	1	30·353	65·2	..	..	145	NW & N
23	..	30·293	63·1	..	..	212	NW & N
24	..	30·286	63·9	..	..	232	ESE & NE
25	..	30·256	64·8	..	..	177	ESE
26	1	30·245	65·7	..	..	271	SE & S
27	2	30·214	60·5	..	..	392	WNW
28	3	30·304	59·7	..	..	478	WNW
29	2	30·438	60·3	..	..	290	WNW
30	..	30·428	65·4	..	..	182	WNW

DIARRHŒA IN DATES OF DEATH, 1887.

DATE. July.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	..	30·309	65·3	..	..	162	WNW
2	1	30·255	66·2	..	..	207	WNW
3	2	30·173	68·9	..	..	176	WNW
4	..	29·993	62·2	0·017	0·9	317	WNW
5	1	29·983	55·6	..	..	616	WNW
6	5	30·092	62·0	0·017	1·3	212	WNW & VAR
7	3	30·065	66·3	..	..	259	W
8	5	29·914	69·8	0·071	2·2	324	SE & VAR
9	2	29·779	64·7	0·045	1·1	396	SSW
10	5	29·684	63·7	..	..	422	WSW
11	..	29·802	65·5	..	..	500	WSW
12	2	29·846	68·0	..	..	441	SSW
13	4	29·693	65·0	0·093	1·2	587	SSW
14	..	29·908	61·9	0·027	1·1	380	WSW
15	3	30·098	61·7	0·006	0·7	243	WSW & NW
16	6	30·251	58·5	0·228	2·1	420	WNW
17	5	30·285	60·3	..	..	325	NNW & VAR
18	5	30·270	60·5	0·026	0·8	457	WNW
19	10	30·311	62·4	..	..	406	WNW
20	9	30·329	62·5	..	..	466	WNW
21	7	30·249	63·5	..	..	196	WNW
22	11	30·073	63·0	0·044	1·1	295	WNW
23	6	30·110	62·9	..	..	301	WNW
24	7	29·858	63·5	0·192	2·1	417	WSW
25	9	29·835	59·4	..	..	232	WNW
26	8	29·574	65·7	0·306	5·4	346	SSE
27	13	29·539	65·2	..	..	628	SW
28	8	29·888	64·9	0·020	0·5	375	SSE
29	10	29·853	61·7	..	..	494	SSW
30	7	30·083	59·9	0·012	0·6	216	WNW
31	8	30·085	58·8	..	..	155	WNW

DIARRHŒA IN DATES OF DEATH, 1887.

DATE. August.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	9	30·253	59·5	..	..	334	WNW
2	8	30·299	59·2	..	..	421	WNW
3	5	30·375	60·2	..	..	162	WNW
4	9	30·297	65·4	..	..	155	NW & VAR
5	10	30·173	69·7	..	..	203	W & SSE
6	15	30·044	69·5	..	..	220	W & SSE
7	7	30·115	60·8	..	..	503	W
8	13	30·165	66·4	..	..	607	WSW
9	5	30·128	59·4	0·018	0·6	850	W
10	10	30·149	57·7	..	..	584	WNW
11	6	30·101	57·6	0·016	0·8	289	NW
12	6	29·953	56·4	0·068	2·0	291	WNW
13	8	29·894	51·2	0·216	3·7	206	NE & S
14	9	30·023	54·6	0·074	0·5	321	WNW & NE
15	11	29·994	55·9	..	..	177	W & VAR
16	11	29·787	61·4	0·080	4·5	172	ESE & VAR
17	13	29·804	55·0	0·317	5·6	216	ENE & SE
18	8	29·898	56·2	0·108	1·7	563	WNW
19	5	29·934	57·2	0·009	0·5	240	NNW
20	8	29·993	57·5	..	..	243	NE & NW
21	2	30·088	55·5	..	..	224	WNW
22	11	30·050	59·9	..	..	268	SW & SE
23	4	30·035	63·5	..	..	223	SSW & VAR
24	3	29·940	66·7	..	..	325	SE
25	8	29·839	67·5	..	..	211	SE & NW
26	3	29·668	60·3	0·356	4·5	341	SE
27	4	29·705	63·4	0·024	0·9	287	SSW
28	5	29·661	65·6	0·093	2·1	275	SSE
29	8	29·556	62·8	..	..	394	SW & SE
30	3	29·513	62·3	0·518	7·2	439	SSW
31	7	29·368	59·0	0·050	1·7	621	WSW

DIARRHŒA IN DATES OF DEATH, 1887.

DATE. Sept.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	5	29·460	56·9	0·469	10·1	428	SSE
2	9	29·163	56·3	0·098	1·3	751	W & VAR
3	7	29·630	58·9	0·212	4·7	371	SSW
4	8	29·539	57·7	0·234	3·8	321	SSW
5	3	29·360	57·9	0·113	3·8	434	SW
6	9	29·398	57·4	0·324	4·0	354	WSW
7	4	29·812	54·3	..	..	291	N & SW
8	5	30·264	56·5	0·053	1·8	277	SSW
9	5	30·016	57·4	0·075	2·4	475	SSW
10	5	29·945	55·3	0·018	1·3	787	W
11	2	29·785	55·4	0·063	2·5	619	WSW
12	2	29·726	49·8	0·250	2·3	688	WNW
13	4	29·860	53·0	0·073	0·6	373	NNW
14	2	29·843	53·4	0·663	9·4	405	WNW
15	3	29·848	52·4	0·240	2·8	469	WSW
16	2	29·979	54·8	..	..	229	WSW
17	..	30·157	52·9	..	..	217	NNE
18	1	30·455	54·3	..	..	187	NE
19	5	30·489	55·0	..	..	331	WNW
20	2	30·379	53·7	..	..	199	WNW
21	3	30·373	54·2	..	..	181	ESE
22	1	30·361	51·4	..	..	134	SE & VAR
23	2	30·458	55·7	..	..	258	ESE
24	1	30·499	53·9	..	..	128	ESE & W
25	3	30·230	54·8	..	..	392	W
26	6	29·710	51·9	0·942	5·5	474	WSW
27	5	29·372	48·3	0·092	2·1	398	WSW
28	2	29·281	47·9	0·069	3·1	180	WNW & N
29	1	29·478	49·0	0·034	1·7	202	NNE
30	2	29·895	51·2	0·012	0·6	345	NE

DIARRHŒA IN DATES OF DEATH, 1887.

DATE. October	No. of Deaths.	Mean Reading of Barometer.	Mean Tempera- ture.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	1	30·209	51·6	..	..	140	NE & NNW
2	.	30·335	54·5	..	..	173	SSE & NW
3	1	30·420	54·5	..	..	136	WNW
4	3	30·388	53·8	..	..	121	WNW & S
5	2	30·329	52·2	..	..	161	NNW
6	2	30·179	52·2	..	..	141	W & NNE
7	..	30·017	51·9	0·299	3·7	440	W
8	..	29·857	46·4	0·218	7·7	365	E & Var.
9	3	29·718	43·0	0·373	7·6	322	ENE
10	1	29·622	43·1	0·168	2·7	470	NNW & NE
11	..	29·708	40·4	0·014	0·3	332	NNW
12	2	29·670	40·9	0·054	1·1	243	NNW & Var.
13	..	29·908	46·2	0·012	1·0	473	NNW
14	.	29·921	44·6	0·046	0·9	670	NNW
15	1	30·221	43·6	..	..	300	NNW
16	2	30·435	46·4	..	..	230	NNW
17	..	30·588	51·2	..	..	261	WNW
18	..	30·555	48·1	..	..	430	W
19	..	30·408	50·8	0·014	0·6	400	WSW
20	..	30·360	47·4	..	..	426	WSW
21	1	30·503	42·8	..	..	211	NNE
22	2	30·489	46·0	..	..	311	SE & SW
23	..	30·143	46·3	0·130	2·5	466	WSW
24	3	30·212	38·2	..	..	617	NNW
25	2	30·580	36·9	..	..	257	NNW
26	..	30·345	43·1	0·319	8·4	414	SSW
27	..	29·850	50·5	0·237	5·9	388	SSE
28	..	29·640	48·2	0·136	1·7	483	WSW
29	2	29·506	46·7	0·138	5·5	449	SSW
30	3	29·295	45·1	0·026	0·7	464	WSW
31	..	29·433	45·1	0·088	2·4	598	WSW

WHOOPIING COUGH

Occasioned 429 deaths, or 143 in the Parish and 286 in the Out-Townships. (The average number of deaths for the preceding ten years was 439). Its percentage death-rate relatively to deaths from all causes was 2·9 in the first quarter of the year, 4·8 in the second, 3·0 in the third, and 1·2 in the fourth; its percentage rate relatively to deaths from all causes was 3·1, and relatively to deaths from Zymotic causes 16·1.

DEATHS FROM WHOOPING COUGH.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{	Below 5 years ..	13	12	11	11	6	8	3	2	33	33	66
		Above 5 years ..	1	1	..	1	..	1	..	2	1	5	6
Vauxhall	{	Below 5 years ..	..	..	1	..	1	1	..	..	2	1	3
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{	Below 5 years ..	..	..	..	1	..	..	1	..	1	1	2
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	{	Below 5 years ..	..	..	..	..	1	2	..	..	1	2	3
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{	Below 5 years ..	..	1	2	3	1	1	..	..	3	5	8
		Above 5 years ..	..	..	1	..	..	..	1	..	1	1	2
Lime Street	{	Below 5 years ..	..	1	1	1	2	..	..	..	3	2	5
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{	Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{	Below 5 years ..	..	..	1	1	..	..	..	..	1	1	2
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	{	Below 5 years ..	..	1	..	1	1	1	..	..	1	3	4
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street.. ..	{	Below 5 years ..	1	..	6	1	1	..	..	1	8	2	10
		Above 5 years ..	..	..	1	..	..	..	..	..	1	..	1
Abercromby	{	Below 5 years ..	1	2	2	3	..	3	..	..	3	8	11
		Above 5 years ..	1	..	..	..	..	..	..	..	1	..	1
Parish Workhouse and Hospitals	{	Below 5 years ..	1	..	7	9	1	..	..	..	9	9	18
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Out-Township Hospitals	{	Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton	{	Below 5 years ..	15	9	12	22	12	10	5	7	44	48	92
		Above 5 years ..	1	3	1	1	..	..	..	1	2	5	7
Kirkdale	{	Below 5 years ..	8	6	9	14	5	5	1	2	23	27	50
		Above 5 years ..	..	1	..	..	..	1	..	..	..	2	2
West Derby	{	Below 5 years ..	6	12	10	12	6	7	2	1	24	32	56
		Above 5 years ..	2	1	..	..	..	..	..	..	2	1	3
North Toxteth	{	Below 5 years ..	1	8	5	12	5	8	5	2	16	30	46
		Above 5 years ..	..	..	1	..	..	..	..	..	1	..	1
South Toxteth	{	Below 5 years ..	2	2	6	7	6	3	1	1	15	13	28
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Parish	{	Below 5 years ..	16	17	31	31	14	17	4	3	65	68	133
		Above 5 years ..	2	1	2	1	..	1	..	3	4	6	10
Out-Townships	{	Below 5 years ..	32	37	42	67	34	34	14	13	122	151	273
		Above 5 years ..	3	5	2	1	..	1	..	1	5	8	13
City	{	Below 5 years ..	48	54	73	98	48	51	18	16	187	219	406
		Above 5 years ..	5	6	4	2	..	2	..	4	9	14	23

DEATHS FROM CROUP.

WARDS.			QUARTERS.								YEAR.				
			March.		June.		Sept.		Dec.						
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total		
Scotland	..	{	Below 5 years	..	2	2	..	2	3	1	2	1	7	6	13
		{	Above 5 years	..	..	1	..	..	..	..	..	..	1	1	1
Vauxhall	..	{	Below 5 years	..	..	1	..	..	..	..	1	..	2	2	2
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..	..
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
Exchange	..	{	Below 5 years	..	..	1	1	..	..	..	..	1	1	2	2
		{	Above 5 years	..	..	1	..	..	..	..	..	..	1	1	1
St. Anne's	..	{	Below 5 years	..	1	..	..	1	..	..	..	2	..	2	2
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
Lime Street	..	{	Below 5 years	..	1	..	..	..	..	..	..	1	..	1	1
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..	..
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..	..
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..	..
		{	Above 5 years	..	..	1	..	..	1	..	..	..	2	2	2
Great George	..	{	Below 5 years	..	..	1	2	1	..	..	..	2	2	4	4
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street..	..	{	Below 5 years	..	..	..	1	1	..	..	..	1	1	2	2
		{	Above 5 years	..	..	..	..	..	..	..	..	..	2	2	2
Abercromby	..	{	Below 5 years	..	..	1	..	1	..	..	..	..	1	1	1
		{	Above 5 years	..	..	1	..	..	..	..	..	1	..	1	1
Parish Workhouse and Hospitals	..	{	Below 5 years	..	1	..	..	1	..	..	..	1	1	2	2
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
Out-Township Hospitals	..	{	Below 5 years	..	1	..	..	..	1	..	..	1	1	2	2
		{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
Everton	..	{	Below 5 years	..	..	3	..	..	2	..	4	1	6	4	10
		{	Above 5 years	..	..	..	..	..	1	2	..	2	1	3	3
Kirkdale	..	{	Below 5 years	..	7	4	3	..	2	..	3	1	15	5	20
		{	Above 5 years	..	..	..	2	..	..	1	..	3	..	3	3
West Derby	..	{	Below 5 years	..	2	4	..	..	..	3	1	2	3	9	12
		{	Above 5 years	..	1	2	..	..	..	1	1	2	3	5	5
North Toxteth..	..	{	Below 5 years	..	2	2	..	..	..	2	..	2	2	6	8
		{	Above 5 years	..	..	1	..	..	..	1	..	1	1	2	2
South Toxteth..	..	{	Below 5 years	..	2	5	1	1	..	2	..	2	3	10	13
		{	Above 5 years	..	..	1	..	..	..	..	..	..	1	1	1
Parish	..	{	Below 5 years	..	5	5	3	7	5	1	2	2	15	15	30
		{	Above 5 years	..	..	3	1	..	..	1	..	..	1	4	5
Out-Townships	..	{	Below 5 years	..	14	18	4	1	4	8	8	8	30	35	65
		{	Above 5 years	..	1	4	2	..	..	1	5	1	8	6	14
City	..	{	Below 5 years	..	19	23	7	8	9	9	10	10	45	50	95
		{	Above 5 years	..	1	7	3	..	..	2	5	1	9	10	19

DEATHS FROM DIPHTHERIA.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.		M.	F.	Total.
			M.	F.	M.	F.	M.	F.	M.	F.			
Scotland	{	Below 5 years ..	..	..	..	..	..	1	..	1	..	2	2
		Above 5 years ..	..	..	1	..	..	..	..	..	1	..	1
Vauxhall	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{	Below 5 years ..	..	..	..	1	..	..	..	..	..	1	1
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Lime Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		Above 5 years ..	..	..	..	..	..	..	1	..	1	1	1
Great George	{	Below 5 years ..	..	..	1	1	..	..	..	1	1	2	2
		Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Rodney Street.. ..	{	Below 5 years ..	..	..	1	..	..	..	..	1	..	1	1
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	{	Below 5 years ..	..	2	..	..	..	..	..	..	2	2	2
		Above 5 years ..	..	..	1	..	1	..	..	2	..	2	2
Parish Workhouse and Hospitals	{	Below 5 years ..	4	..	2	1	1	1	1	1	8	3	11
		Above 5 years ..	1	..	1	..	1	1	1	..	4	1	5
Out-Township Hospitals	{	Below 5 years ..	1	1	..	..	..	..	..	1	1	2	2
		Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton	{	Below 5 years ..	2	1	2	..	..	..	..	4	1	5	5
		Above 5 years ..	..	2	1	..	1	1	1	3	3	6	6
Kirkdale	{	Below 5 years ..	..	1	1	..	2	1	..	1	3	3	6
		Above 5 years ..	..	..	..	2	..	..	1	..	1	2	3
West Derby	{	Below 5 years ..	..	2	1	..	..	1	3	3	4	6	10
		Above 5 years ..	1	..	..	1	..	..	1	1	2	3	3
North Toxteth.. ..	{	Below 5 years ..	1	4	3	2	3	2	..	7	8	15	15
		Above 5 years ..	..	1	..	2	..	1	..	..	4	4	4
South Toxteth.. ..	{	Below 5 years ..	..	1	1	1	2	1	2	5	3	8	8
		Above 5 years ..	1	2	..	1	..	..	..	1	3	4	4
Parish	{	Below 5 years ..	4	2	4	3	1	2	1	2	10	9	19
		Above 5 years ..	1	..	3	..	2	1	2	1	8	2	10
Out-Townships	{	Below 5 years ..	4	10	8	3	7	5	5	4	24	22	46
		Above 5 years ..	2	5	1	6	1	2	2	1	6	14	20
City	{	Below 5 years ..	8	12	12	6	8	7	6	6	34	31	65
		Above 5 years ..	3	5	4	6	3	3	4	2	14	16	30

OTHER ZYMOTICS.

Under the term of other Zymotics are included:—Small Pox, Chicken Pox, Cholera, Dysentery, Infantile Remittent Fever, Erysipelas, Syphilis, Thrush, Puerperal Fever, Rheumatic Fever, Quinsy, Mumps, Ague, and Purpura.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..		3	2	..	..	3	3	1	1	7	6	13
	{ Above 5 years ..		2	2	3	1	..	3	5	2	10	8	18
Vauxhall	{ Below 5 years ..		..	..	..	1	..	1	..	..	..	2	2
	{ Above 5 years ..		..	..	..	..	..	..	1	..	1	..	1
St. Paul's	{ Below 5 years ..		1	..	..	..	1	..	1	..	3	..	3
	{ Above 5 years ..		1	..	..	..	..	..	..	..	1	..	1
Exchange	{ Below 5 years ..		..	1	1	1	..	..	..	..	1	2	3
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..		..	..	1	..	2	..	1	1	4	1	5
	{ Above 5 years ..		..	..	1	..	..	..	1	1	2	1	3
Lime Street	{ Below 5 years ..		..	..	3	..	..	..	..	1	3	1	4
	{ Above 5 years ..		1	..	..	..	1	1	..	..	2	1	3
Castle Street	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		1	..	1	..	..	1	..	..	2	1	3
	{ Above 5 years ..		..	..	..	..	..	..	1	..	1	..	1
Pitt Street	{ Below 5 years ..		..	..	..	..	..	1	1	..	1	1	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..		..	..	..	1	..	2	1	..	1	3	4
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Rodney Street.. ..	{ Below 5 years ..		..	..	..	1	..	..	..	..	..	1	1
	{ Above 5 years ..		..	..	2	..	1	1	..	2	3	3	6
Abercromby	{ Below 5 years ..		..	..	..	..	2	..	..	..	2	..	2
	{ Above 5 years ..		..	..	1	..	..	1	..	1	1	2	3
Parish Workhouse and Hospitals	{ Below 5 years ..		3	1	..	1	1	1	1	1	5	4	9
	{ Above 5 years ..		..	2	4	1	..	4	3	3	7	10	17
Out-Township Hospitals	{ Below 5 years ..		..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..		4	..	1	..	3	1	2	..	10	1	11
Everton	{ Below 5 years ..		3	..	1	3	4	3	2	1	10	7	17
	{ Above 5 years ..		1	2	4	3	1	2	5	1	11	8	19
Kirkdale	{ Below 5 years ..		2	..	..	..	1	..	2	1	5	1	6
	{ Above 5 years ..		1	3	2	5	..	1	1	2	4	11	15
West Derby	{ Below 5 years ..		2	1	..	..	4	..	2	4	8	5	13
	{ Above 5 years ..		..	1	1	..	2	2	2	2	5	5	10
North Toxteth	{ Below 5 years ..		..	1	..	1	2	3	1	3	3	8	11
	{ Above 5 years ..		2	3	1	1	..	..	3	3	6	7	13
South Toxteth	{ Below 5 years ..		..	4	..	5	2	2	1	1	3	12	15
	{ Above 5 years ..		..	1	..	..	..	1	2	..	2	2	4
Parish	{ Below 5 years ..		8	4	6	5	9	9	6	4	29	22	51
	{ Above 5 years ..		4	4	11	2	2	10	11	9	28	25	53
Out-Townships	{ Below 5 years ..		7	6	1	9	13	8	8	11	29	34	63
	{ Above 5 years ..		8	10	9	9	6	7	15	8	38	34	72
City	{ Below 5 years ..		15	10	7	14	22	17	14	15	58	56	114
	{ Above 5 years ..		12	14	20	11	8	17	26	17	66	59	125

TUBERCULAR DISEASES.

This group of diseases includes Phthisis, Scrofula, Tabes Mesenterica, and Hydrocephalus. They occasioned 1,606 deaths in the City of Liverpool during the year 1887, of which 627 occurred in the Parish, and 979 in the Out-Townships. (The average number of deaths for the preceding ten years was 1,929). The death-rate was 2·7 per 1,000 of the estimated population; their percentage death-rate relatively to deaths from all causes was 11·5.

PHTHISIS.

The deaths from Phthisis amounted to 1,170, the average number for the preceding ten years being 1,358.

WARDS.			QUARTERS.								YEAR.				
			March.		June.		Sept.		Dec.						
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.		
Scotland	{	Below 5 years	1	2	1	2	..	1	1	1	3	6	9
			{	Above 5 years	13	13	12	15	7	9	9	14	41	51	92
Vauxhall	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
			{	Above 5 years	2	1	..	1	..	4	1	1	3	7	10
St. Paul's	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
			{	Above 5 years	1	2	1	1	5	3	2	1	9	7	16
Exchange	{	Below 5 years	..	..	..	1	..	..	..	..	..	1	1
			{	Above 5 years	1	2	2	1	2	1	1	..	6	4	10
St. Anne's	{	Below 5 years	..	..	..	..	1	1	..	..	1	1	2
			{	Above 5 years	5	4	5	6	5	2	3	4	18	16	34
Lime Street	{	Below 5 years	..	..	..	1	..	..	..	..	..	1	1
			{	Above 5 years	3	2	..	1	3	1	2	..	8	4	12
Castle Street	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
			{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
			{	Above 5 years	1	2	1	1	..	..	..	1	2	4	6
Pitt Street	{	Below 5 years	..	..	1	1	..	..	..	..	1	1	2
			{	Above 5 years	2	1	1	2	..	1	..	3	3	7	10
Great George	{	Below 5 years	..	1	1	..	..	..	..	..	1	1	2
			{	Above 5 years	2	3	3	3	..	1	1	..	6	7	13
Rodney Street..	{	Below 5 years	..	..	1	..	..	..	..	..	1	..	1
			{	Above 5 years	1	1	3	6	1	3	6	1	11	11	22
Abercromby	{	Below 5 years	..	..	1	..	..	..	..	..	1	..	1
			{	Above 5 years	3	1	7	6	3	3	2	3	15	13	28
Parish Workhouse and Hospitals	{	Below 5 years	..	3	..	..	1	..	..	..	1	3	4
			{	Above 5 years	35	19	37	17	25	18	31	14	128	68	196
Out-Township Hospitals	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
			{	Above 5 years	15	11	14	10	10	10	8	11	47	42	89
Everton..	{	Below 5 years	1	..	3	2	1	2	1	..	6	4	10
			{	Above 5 years	17	21	20	33	21	23	15	25	73	102	175
Kirkdale	{	Below 5 years	..	..	..	..	2	..	1	1	3	1	4
			{	Above 5 years	16	18	18	12	12	5	18	9	64	44	108
West Derby	{	Below 5 years	..	1	1	..	..	3	..	..	1	4	5
			{	Above 5 years	14	13	13	13	14	16	14	14	55	56	111
North Toxteth	{	Below 5 years	..	2	..	1	1	1	..	..	1	4	5
			{	Above 5 years	9	22	13	15	12	17	14	15	48	69	117
South Toxteth..	{	Below 5 years	..	1	2	1	3	..	1	2	6	4	10
			{	Above 5 years	10	11	3	10	7	9	6	8	26	38	64
Parish	{	Below 5 years	1	6	5	5	2	2	1	1	9	14	23
			{	Above 5 years	69	51	72	60	51	46	58	42	250	199	449
Out-Townships	{	Below 5 years	1	4	6	4	7	6	3	3	17	17	34
			{	Above 5 years	81	96	81	93	76	80	75	82	313	351	664
City	{	Below 5 years	2	10	11	9	9	8	4	4	26	31	57
			{	Above 5 years	150	147	153	153	127	126	133	124	563	550	1113

DEATHS FROM THE OTHER TUBERCULAR DISEASES.

WARDS.			QUARTERS.								YEAR.					
			March		June.		Sept.		Dec.							
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.			
Scotland	{	Below 5 years	..	5	5	3	5	5	6	7	3	20	19	39
			{	Above 5 years	..	..	1	1	..	3	2	2	..	6	3	9
Vauxhall	{	Below 5 years	..	2	..	..	3	..	..	..	..	2	3	5
			{	Above 5 years	..	..	1	..	..	..	..	..	..	..	1	1
St. Paul's	{	Below 5 years	..	..	..	..	1	2	..	..	..	1	2	3
			{	Above 5 years	..	..	..	..	..	1	..	..	..	..	1	1
Exchange	.	..	{	Below 5 years	..	..	..	2	1	1	1	..	..	3	2	5
			{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{	Below 5 years	..	1	..	..	1	3	..	1	1	5	2	7
			{	Above 5 years	..	..	1	..	..	1	..	..	..	1	1	2
Lime Street	{	Below 5 years	..	..	..	1	..	..	..	..	3	1	3	4
			{	Above 5 years	..	..	..	..	..	1	..	..	..	..	1	1
Castle Street	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..	..
			{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{	Below 5 years	..	..	2	1	1	..	..	..	..	1	3	4
			{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{	Below 5 years	..	1	..	3	..	..	..	..	..	4	..	4
			{	Above 5 years	..	..	..	..	..	1	..	..	..	1	..	1
Great George	{	Below 5 years	..	1	3	2	..	2	3	..	1	5	7	12
			{	Above 5 years	..	..	..	..	..	..	1	..	..	..	1	1
Rodney Street..	{	Below 5 years	..	..	1	1	2	2	1	1	..	4	4	8
			{	Above 5 years	..	..	..	..	..	..	1	..	..	..	1	1
Abercromby	{	Below 5 years	..	2	1	1	2	1	1	1	1	5	5	10
			{	Above 5 years	..	..	..	1	..	..	..	..	1	1	1	2
Parish Workhouse and Hospitals	{	Below 5 years	..	..	..	3	2	5	2	1	2	9	6	15
			{	Above 5 years	..	1	1	3	2	2	4	7	..	13	7	20
Out-TownshipHospitals			{	Below 5 years	..	..	..	1	..	..	..	..	..	1	..	1
			{	Above 5 years	..	1	..	2	3	2	1	1	1	6	5	11
Everton..	{	Below 5 years	..	8	5	6	13	16	9	5	7	35	34	69
			{	Above 5 years	..	1	2	2	2	..	1	2	1	5	6	11
Kirkdale	{	Below 5 years	..	8	4	4	7	7	11	4	..	23	22	45
			{	Above 5 years	..	..	1	..	3	..	5	2	1	2	10	12
West Derby	{	Below 5 years	..	10	3	7	4	8	9	4	5	29	21	50
			{	Above 5 years	..	1	..	1	3	..	3	1	3	3	9	12
North Toxteth..	{	Below 5 years	..	5	2	5	2	5	4	6	4	21	12	33
			{	Above 5 years	..	..	2	..	1	3	..	1	1	4	4	8
South Toxteth..	{	Below 5 years	..	3	2	8	3	1	3	..	3	12	11	23
			{	Above 5 years	..	1	..	1	1	..	2	1	..	3	3	6
Parish	{	Below 5 years	..	12	12	17	17	20	16	11	11	60	56	116
			{	Above 5 years	..	1	4	5	2	7	10	9	1	22	17	39
Out-Townships	{	Below 5 years	..	34	16	31	29	37	36	19	19	121	100	221
			{	Above 5 years	..	4	5	6	13	5	12	8	7	23	37	60
City	{	Below 5 years	..	46	28	48	46	57	52	30	30	181	156	337
			{	Above 5 years	..	5	9	11	15	12	22	17	8	45	54	99

Mr. Hartnup has kindly supplied the following Meteorological Table.

The Mean Barometrical Pressure and the Mean Temperature of the year are about the average, but the rainfall was much below, being no less than 13·799 inches short of the rainfall of the previous year.

LIVERPOOL OBSERVATORY.

DATE—1887.	Mean Barometer.	Mean Temperature.	Rainfall on Ground.
	Inches.	o	Inches.
January	29·922	38·0	2·418
February	30·278	39·8	0·490
March	30·069	38·9	1·344
April	30·016	44·0	0·915
May	30·044	49·6	1·804
June	30·197	61·2	1·418
July	30·006	63·2	1·104
August	29·961	60·6	1·947
September	29·892	54·1	4·034
October	30·092	46·8	2·272
November	29·678	41·2	1·195
December.. .. .	29·798	38·8	1·880
YEAR 1887	29·996	48·0	20·821
„ 1886	29·872	48·3	34·620

The following tables have been kindly supplied by Mr. Hagger, the Vestry Clerk, as showing the amount of infectious disease treated in the Brownlow Hill Hospital, and not to be taken as a statement of the pauperism in the Parish, for the two following reasons:—

The Industrial Schools receive children from West Derby, Toxteth Park, and Prescott: the average number of such children for the year was 429.

The fever cases in hospital include patients sent in by the Medical Officer of Health from every part of the City, and from ships, and are paid for by the Hospital Committee and Port Sanitary Authority: the average number for the year was 69.

PARISH OF LIVERPOOL.

Return of Infectious Diseases, &c., in Workhouse Hospital.

DATE, 1887. — WEEK ENDING				MEASLES.				SCARLATINA.				TYPHOID.					
				No. at commence- ment of Week.	Admitted.	Discharged.	Died.	Remaining at end of Week.	No. at commence- ment of Week.	Admitted.	Discharged.	Died.	Remaining at end of Week.	No. at commence- ment of Week.	Admitted.	Discharged.	Died.	Remaining at end of Week.
Jan.	1	..	..	12	3	1	..	14	45	2	17	..	30	7	1	..	7
„	8	..	..	14	2	4	1	11	30	7	7	2	28	7	5	2	9
„	15	..	..	11	1	7	..	5	28	9	8	..	29	9	1	..	10
„	22	..	..	5	1	3	2	1	29	18	2	1	44	10	2	2	10
„	29	..	..	1	3	..	..	4	44	8	4	1	47	10	3	..	13
Feb.	5	..	..	4	4	..	1	7	47	12	7	..	52	13	3	2	13
„	12	..	..	7	5	..	..	12	52	14	4	1	61	13	2	1	14
„	19	..	..	12	7	5	..	14	61	14	5	1	69	14	3	4	12
„	26	..	..	14	7	2	1	18	69	2	7	1	63	12	1	..	13
March	5	..	..	18	10	4	2	22	63	8	3	..	68	13	..	..	13
„	12	..	..	22	6	5	1	22	68	1	14	1	54	13	2	2	13
„	19	..	..	22	2	2	1	21	54	..	4	..	50	13	3	3	13
„	26	..	..	21	4	9	..	16	50	1	7	1	43	13	2	1	14
April	2	..	..	16	7	6	..	17	43	..	23	..	20	14	..	2	12
„	9	..	..	17	2	3	..	16	20	1	..	1	20	12	2	1	13
„	16	..	..	16	..	6	1	9	20	1	6	..	15	13	..	4	9
„	23	..	..	9	3	6	..	6	15	1	10	..	6	9	4	..	12
„	30	..	..	6	5	4	1	6	6	..	2	..	4	12	2	..	14
May	7	..	..	6	5	3	..	8	4	1	1	..	4	14	1	..	14
„	14	..	..	8	5	6	1	6	4	5	..	1	8	14	2	1	14
„	21	..	..	6	2	1	..	7	8	1	1	..	8	14	2	1	15
„	28	..	..	7	2	6	..	3	8	..	1	..	7	15	1	..	16
June	4	..	..	3	4	5	..	2	7	1	..	..	8	16	3	1	18
„	11	..	..	2	5	2	..	5	8	2	3	..	7	18	..	1	16
„	18	..	..	5	6	4	..	7	7	2	3	..	6	16	3	1	17
„	25	..	..	7	4	2	1	8	6	6	1	..	11	17	4	4	16
July	2	..	..	8	..	4	..	4	11	5	2	1	13	16	2	1	17
„	9	..	..	4	2	4	..	2	13	6	2	..	17	17	5	1	21
„	16	..	..	2	3	1	..	4	17	1	3	..	15	21	1	3	19
„	23	..	..	4	..	1	..	3	15	2	..	..	17	19	4	2	21
„	30	..	..	3	3	2	..	4	17	..	1	..	16	21	2	4	18
Aug.	6	..	..	4	..	1	..	3	16	1	5	..	12	18	3	5	14
„	13	..	..	3	4	2	..	5	12	..	2	..	10	14	5	1	17
„	20	..	..	5	..	1	..	4	10	4	2	1	11	17	3	3	17
„	27	..	..	4	4	1	1	6	11	4	3	..	12	17	3	1	18
Sept.	3	..	..	6	..	1	..	5	12	1	1	..	12	18	3	..	20
„	10	..	..	5	..	..	..	5	12	2	..	..	14	20	7	2	23
„	17	..	..	5	1	2	..	4	14	2	4	..	12	23	2	1	23
„	24	..	..	4	2	1	1	4	12	16	1	1	26	23	7	3	27
Oct.	1	..	..	4	1	2	..	3	26	31	4	1	52	27	2	3	22
„	8	..	..	3	3	1	..	5	52	12	2	..	62	22	1	4	19
„	15	..	..	5	1	2	..	4	62	3	2	2	61	19	3	5	16
„	22	..	..	4	4	1	..	7	61	..	7	..	54	16	3	..	18
„	29	..	..	7	..	2	..	5	54	9	8	..	55	18	..	4	12
Nov.	5	..	..	5	1	3	..	3	55	4	5	..	54	12	1	..	13
„	12	..	..	3	..	..	..	3	54	17	12	2	57	13	..	2	10
„	19	..	..	3	..	1	..	2	57	11	18	..	50	10	2	1	10
„	26	..	..	2	..	..	..	2	50	11	9	4	48	10	2	1	11
Dec.	3	..	..	2	2	..	..	4	48	11	1	..	58	11	..	..	11
„	10	..	..	4	1	4	..	1	58	6	2	2	60	11	..	1	10
„	17	..	..	1	..	1	..	..	60	6	8	2	56	10	1	3	8
„	24	..	..	..	..	..	..	..	56	..	11	1	44	8	2	..	10
„	31	..	..	..	1	..	..	1	44	..	4	..	40	10	..	2	6

PARISH OF LIVERPOOL.

Return of Infectious Diseases, &c., in Workhouse Hospital—(Continued)

DATE, 1887. — WEEK ENDING			TYPHUS.					SIMPLE.				
			No. at commence- ment of Week.	Admitted.	Discharged.	Died.	Remaining at end of Week.	No. at commence- ment of Week.	Admitted.	Discharged.	Died.	Remaining at end of Week.
Jan.	1	..	24	2	2	..	24	7	1	3	..	5
"	8	..	24	1	4	2	19	5	2	4	..	3
"	15	..	19	5	11	..	13	3	8	3	1	7
"	22	..	13	6	3	1	15	7	5	5	..	7
"	29	..	15	7	6	3	13	7	2	..	..	9
Feb.	5	..	13	2	..	2	13	9	2	2	..	9
"	12	..	13	..	2	2	9	9	7	5	..	11
"	19	..	9	2	3	..	8	11	5	5	1	10
"	26	..	8	2	5	..	5	10	4	6	1	7
March	5	..	5	..	3	..	2	7	5	2	..	10
"	12	..	2	8	..	..	10	10	7	8	..	9
"	19	..	10	1	..	2	9	9	5	4	1	9
"	26	..	9	2	..	1	10	9	1	4	..	6
April	2	..	10	1	2	1	8	6	6	3	..	9
"	9	..	8	1	4	..	5	9	..	1	1	7
"	16	..	5	3	..	..	8	7	3	4	3	3
"	23	..	8	..	3	1	4	3	5	1	1	6
"	30	..	4	2	..	..	6	6	7	2	..	11
May	7	..	6	10	1	2	13	11	2	2	1	10
"	14	..	13	2	2	1	12	10	11	5	2	14
"	21	..	12	5	..	1	16	14	4	7	1	10
"	28	..	16	7	2	1	20	10	8	4	1	13
June	4	..	20	25	7	2	36	13	4	5	..	12
"	11	..	36	8	4	..	40	12	10	10	..	12
"	18	..	40	12	6	1	45	12	9	2	2	17
"	25	..	45	5	12	2	36	17	4	5	1	15
July	2	..	36	11	9	1	37	15	7	4	..	18
"	9	..	37	3	10	1	29	18	1	8	..	11
"	16	..	29	11	5	1	34	11	7	10	..	8
"	23	..	34	6	15	..	25	8	6	2	2	10
"	30	..	25	3	7	..	21	10	7	7	2	8
Aug.	6	..	21	2	5	1	17	8	5	3	3	7
"	13	..	17	2	6	..	13	7	3	5	..	5
"	20	..	13	3	1	..	15	5	12	7	3	7
"	27	..	15	2	6	1	10	7	3	4	..	6
Sept.	3	..	10	2	1	..	11	6	2	1	1	6
"	10	..	11	1	5	..	7	6	4	4	..	6
"	17	..	7	2	1	..	8	6	4	4	3	3
"	24	..	8	1	3	..	6	3	2	4	..	1
Oct.	1	..	6	..	..	1	5	1	13	2	..	12
"	8	..	5	4	..	..	9	12	5	9	..	8
"	15	..	9	4	3	1	9	8	2	3	..	7
"	22	..	9	1	..	1	9	7	3	2	..	8
"	29	..	9	1	6	3	1	8	3	4	..	7
Nov.	5	..	1	..	1	..	..	7	2	3	..	6
"	12	..	..	1	1	..	..	6	1	..	..	7
"	19	..	..	..	..	..	..	7	3	1	1	8
"	26	..	..	..	..	..	..	8	1	1	..	8
Dec.	3	..	..	..	..	..	..	8	2	2	..	8
"	10	..	..	..	..	..	..	8	2	2	..	8
"	17	..	..	..	..	..	..	8	5	..	1	12
"	24	..	..	..	..	..	..	12	2	4	..	10
"	31	..	..	..	..	..	..	10	2	5	..	7

These show that the average number of persons suffering from Continued Fever (including therein Typhus, Typhoid, and simple Continued Fever) at one time in Hospital during the year 1887 was 36, and their percentage Death-rate was 18·6. The average number of cases of Scarlatina at one time in Hospital during the year was 33, and the percentage Death-rate was 9·9. The average number of cases of Measles at one time in Hospital during the year was 7, and the percentage Death-rate was 10·9. All Small Pox cases belonging to the Parish were treated in the City Hospital, Park Hill.

PARISH OF LIVERPOOL.

RETURN OF PERSONS IN RECEIPT OF RELIEF IN THE YEAR 1887.

Week ending.	Work-house.	Industrial Schools.	Out-Relief.	Week ending.	Work-house.	Industrial Schools.	Out-Relief.
January 1..	3383	1060	2918	July 2..	2849	911	2736
„ 8..	3481	1050	3037	„ 9..	2885	900	2675
„ 15..	3472	1097	3058	„ 16..	2870	916	2620
„ 22..	3491	1068	3095	„ 23..	2888	888	2617
„ 29..	3444	1062	3069	„ 30..	2922	926	2592
February 5..	3527	1036	3045	August 6..	2929	902	2567
„ 12..	3519	1058	3115	„ 13..	2896	923	2581
„ 19..	3510	1020	3096	„ 20..	2911	888	2612
„ 26..	3480	1044	3148	„ 27..	2867	898	2530
March 5..	3508	1036	3139	September 3..	2923	878	2565
„ 12..	3493	1050	3127	„ 10..	2968	932	2543
„ 19..	3511	1027	3119	„ 17..	2962	898	2533
„ 26..	3465	1040	3084	„ 24..	3003	916	2591
April 2..	3352	1008	3071	October 1..	3080	909	2573
„ 9..	3206	1015	3018	„ 8..	3140	945	2562
„ 16..	3189	999	3003	„ 15..	3214	929	2595
„ 23..	3137	994	2979	„ 22..	3220	960	2579
„ 30..	3142	964	2941	„ 29..	3265	939	2545
May 7..	3081	968	2936	November 5..	3315	977	2566
„ 14..	3019	908	2926	„ 12..	3380	969	2562
„ 21..	3003	948	2957	„ 19..	3394	1015	2568
„ 28..	2989	919	2908	„ 26..	3435	992	2605
June 4..	2972	927	2837	December 3..	3417	1041	2568
„ 11..	2969	900	2848	„ 10..	3482	1025	2558
„ 18..	2938	895	2840	„ 17..	3439	1067	2546
„ 25..	2857	874	2726	„ 24..	3402	1034	2565
				„ 31..	3425	1038	2540

The number of persons in receipt of Parochial Relief on Saturday, 2nd of July, 1887, was 6,496, or 54 more than on the 3rd July, 1886; and the number on Saturday, the 31st December, 1887, was 7,003, or 358 less than on the 1st January, 1887.

SANITARY WORK.

Privies Certified for Conversion into Water Closets during the year 1887.

WARDS.											No. of Privies Certified.
Scotland	..	..	..	..	..	..	..	..	..	..	10
Vauxhall	..	..	..	..	..	..	..	..	..	..	1
Exchange	..	..	..	..	..	..	..	..	..	..	1
St. Anne's	..	..	..	..	..	..	..	..	..	..	3
Lime Street	..	..	..	..	..	..	..	..	..	..	5
Great George..	..	..	..	..	..	..	..	..	..	..	9
Rodney Street	..	..	..	..	..	..	..	..	..	..	11
Abercromby	..	..	..	..	..	..	..	..	..	..	56
Everton	..	..	..	..	..	..	..	..	..	..	24
Kirkdale	..	..	..	..	..	..	..	..	..	..	13
West Derby	..	..	..	..	..	..	..	..	..	..	48
North Toxteth	..	..	..	..	..	..	..	..	..	..	13
South Toxteth	..	..	..	..	..	..	..	..	..	..	15
TOTAL..											209

OFFENSIVE TRADES.

The following applications were made during the year, and a report by the Medical Officer of Health submitted to the Health Committee on each case.

Premises.	Business.	Granted.	Refused.	Date.
106, Northumberland Street	Bone Boiling	—	1	6th January
181, Scotland Road	Tripe Dressing	—	1	29th Sept.

SLAUGHTERHOUSE TRANSFERS.

Premises.	Refused.	Date.
63, Benledi Street	1	24th March

DRYING DAMAGED GRAIN.

3, Clayton Street, certified as a nuisance, 28th July.
68, North Dingle ,, ,, ,, ,,

An information was laid against the tenant of 3, Clayton Street, and a fine of 40s. and 19s. 6d. costs inflicted. Two informations were laid against the tenant of 68, North Dingle, and fines of 40s. and 29s. 6d. costs and 60s. and 15s costs inflicted.

LIVERPOOL SANITARY AMENDMENT ACT, 1864.

The following premises were reported by the Medical Officer to be insanitary and ought to be demolished. The City Council, on the report being laid before them by the Town Clerk in compliance with the Act, referred them to the Insanitary Property Committee to be dealt with.

Gascoyne Street.—The houses Nos. 26 and 28, in the said street, and the houses Nos. 1, 2, 3, 4, 5, 6, and 7 in No. 6 Court, in the said street, ought to be demolished.

Perry Street.—The houses Nos. 1, 2, 3, 4, 5, and 6, in No. 2 Court in the said street, ought to be demolished.

Darnley Street.—The houses Nos. 26 and 28, in the said street, and the houses, Nos. 1, 3, and 5 in No. 8 Court, and the houses Nos. 2, 4, and 6, in No. 10 Court, in the said street, ought to be demolished.

Ben Jonson Street.—The house No. 17, in the said street, ought to be demolished.

Downe Street.—The house No. 5, in the said street, ought to be demolished.

Downe Street.—The houses Nos. 7, 9, 11, 15, and 17, in the said street, and the house No. 1, in No. 1 Court, in the said street, ought to be demolished.

Lower Thurlow Street.—The houses Nos. 1, 3, 5, and 7, in the said street, ought to be demolished.

Prince William Street.—The house No. 51, in the said street, and the house at the rear in No. 15 Court, in the said street, ought to be demolished.

Prince William Street.—The houses Nos. 59, 61, 63, and 65, in the said street, ought to be demolished.

Cooper Street.—The houses Nos. 21 and 23, in the said street, ought to be demolished.

Bevin Lane.—The houses Nos. 4 and 5, in No. 3 Court, in the said street, ought to be demolished.

The City Engineer has kindly supplied the following tables :—

INSANITARY PROPERTY.

Insanitary Property purchased 1887.				Insanitary Property demolished 1887.			
No. of houses included in seventh presentment.	No. of houses included in eighth presentment.	No. of houses purchased by Insanitary Property Committee included in presentments referred by Council to Committee.	Total.	No. of houses included in seventh presentment.	No. of houses included in eighth presentment.	No. of houses demolished by Insanitary Property Committee included in presentments referred by Council to Committee.	Total.
—	—	44	44	20	76	14	110

NUMBER OF HOUSES ERECTED AND THE NUMBER OF HOUSES TAKEN DOWN IN THE 16 WARDS DURING THE YEAR 1887.

	WARDS.							Houses Erected.	Total Houses taken down
1	Everton and Kirkdale..	..	..	..	..	..	..	289	20
2	Scotland	..	..	..	..	..	..	50	71
3	Vauxhall	..	..	..	..	..	..	1	184
4	St. Paul's	..	..	..	..	..	..	2	....
5	Exchange	..	..	..	..	..	..	11	42
6	Castle Street	..	..	..	..	..	..	....	3
7	St. Peter's	..	..	..	..	..	..	1	3
8	Pitt Street	..	..	..	..	..	..	....	3
9	Great George	..	..	..	..	..	..	1	6
10	Rodney	..	..	..	..	..	..	....	....
11	Abercromby	..	..	..	..	..	..	1	50
12	Lime Street	..	..	..	..	..	..	....	14
13	St. Anne's	..	..	..	..	..	..	....	5
14	West Derby	..	..	..	..	..	..	499	2
15	South Toxteth ..	..	..	..	..	..	..	10	12
16	North Toxteth ..	..	..	..	..	..	..	1	49
TOTALS								866	464

SEWER VENTILATION TO END OF 1887.

No. of 6-inch Iron Pipe Ventilating Shafts	..	..	..	..	919
No. of Street Ventilating Gratings	.	..	..	..	4,387
The length of Old Sewers Ventilated	.	..	..	..	180 miles

NOTE.—All New Sewers are ventilated as constructed.

LODGING-HOUSES.

The Health Committee have, since the passing of the Sanitary Act, 1866, ruled that, as far as possible, all registered lodging-houses should have a day apartment for the accommodation of their lodgers, and that all houses where single rooms were occupied by day and night should be registered as sub-let. The space required for a night lodger in a registered lodging-house is 300 cubical feet, while the space in a sub-let house for each adult is 350 feet.

There were on the register 902 lodging-houses at the end of 1886, and 885 at the end of 1887. This difference was occasioned by the removal of 263 old licences, and the addition of 246 new ones. The visits to lodging-houses are both by day and night. The lodging-houses of the better class, and especially those provided with only single beds for each person, and only with the number of beds equivalent to the number of lodgers allowed, are not visited at night except on grave suspicion or on complaint, or in the case of foreign emigrant lodging-houses. The night visits are pretty nearly restricted to the low districts and tramp houses. The number of day visits paid during the year was 38,292, and the night visits 5,574. The number of lodging-houses found overcrowded on the night visits was 32, the number of informations laid for breaches of the bye-laws was 76, with the results of fines in 74 cases to the extent of £16 1s. 6d., in sums varying from 1s. to 10s. and costs. The number of lodging-houses found dirty was 181; notices were served to lime-wash and cleanse.

It is necessary frequently to visit houses which are not licensed either as lodging or sub-let houses, especially when emigration is brisk or at race times. There were 2,146 such visits paid during the day, and in 31 of the cases where suspicion was confirmed they were followed up by night visits. A tenant harbouring lodgers is not taken before the Justices for the first offence, but is noticed to apply to have his rooms measured and licensed. There were 202 such notices issued during the year, but in only 12 cases did the tenants refuse to comply; they were brought before the Justices and fined. A bye-law requires that every case of infectious sickness in a lodging-house should be at once reported to the Medical Officer of Health. 24 cases of fever and 1 case of small-pox occurred in lodging-houses; in 20 of the cases the patients were at once sent to hospital, the remaining 5, being members of the keepers' families, were not removed; 4 of these latter died. In all cases of fever or infectious disease the bedding was removed to the disinfecting apparatus, and the rooms purified and cleansed; in the cases where the patients remained, the licenses to receive lodgers were suspended by the Medical

Officer. No lodger died from fever or small-pox in a registered lodging-house ; but, not including the cases of fever, there were 99 deaths from non-contagious diseases in lodging-houses, of which 62 belonged to the keepers' families and 37 were lodgers.

SEAMEN'S LICENSED LODGING HOUSES.

The Corporation have made bye-laws, with the sanction of the President of the Board of Trade, for the licensing of Seamen's Lodging Houses, under the Merchant Shipping (Fishing Boats) Act, 1883, section 48, which enacts that " The Sanitary Authority within whose district any seaport town is situate may, " with the sanction of the President of the Board of Trade, from time to time, " make, revoke, alter, and amend bye-laws and regulations relating to Seamen's " Lodging Houses in such town which shall be binding upon all persons and " bodies keeping houses in which seamen are lodged, and the owners thereof, " and persons employed therein. Such bye-laws and regulations shall, amongst " other things, provide for the licensing of Seamen's Lodging Houses, the " inspection of the same, the sanitary conditions of the same, the publication of " the fact of a house being licensed, the due execution of the bye-laws and regu- " lations, and the non-obstruction of persons engaged in securing such execu- " tion, the preventing of persons not duly licensed holding themselves out as " keeping or purporting to keep licensed houses, and the exclusion from licensed " houses of persons of improper character, and sufficient penalties for the breach " of such bye-laws and regulations not exceeding in any case the sum of fifty " pounds. All offences under such bye-laws and regulations shall be deemed " to be offences within the Merchant Shipping Acts, 1854 to 1883, and " be punishable accordingly."—And on the written application of the keeper of any registered common lodging house or registered lodging house, made in such form and stating such particulars as the Council require, the Council will, if they see fit, grant to such keeper a license authorizing him to designate his registered house a Seamen's Licensed Lodging House.

During the year 9 applications were received, 7 of which were granted.

SUB-LET HOUSES.

The number of sub-let Houses on the Register at the termination of 1886 was 20,756 ; the number registered during 1887 was 1,131, making the total on the Register on the 31st December, 21,887. The number of visits paid during the night was 17,827, and during the day 113,625, with the result of finding

1,795 rooms overcrowded. In addition to overcrowding, the offence (though not punishable in sub-let houses) of permitting males and females not married to occupy the same room comes under the notice and is entered in the books of the Inspectors. There were 748 rooms thus indecently occupied by 1,083 males and 1,308 females, besides having also in these rooms 446 children between the ages of 3 and 12 years. The character of the indecent occupation may be judged of from the following facts:—In 392 instances one man and two women were found in the same bedroom; in 230 instances two men and one woman; in forty-seven instances two men and two women; in forty-two instances one man and three women; in twenty-one instances three men and one woman; in two instances two men and three women; in eight instances one man and four women; in one instance four men and one woman; in two instances three men and two women; in two instances three men and four women; and in one instance four men and two women.

Informations were laid against 1,406 chief tenants for permitting overcrowding in rooms, with the following results:—1,298 fined 1s. and 1s. costs; 4 fined 1s. 6d. and 1s. 6d. costs; 3 fined 2s. and 2s. costs; 1 fined 2s. 6d. and 1s. costs; 67 fined 2s. 6d. and 2s. 6d. costs; 10 fined 5s. and 4s. 6d. costs; 1 fined 10s. and 4s. 6d. costs; making a total of fines levied during the year of £153 8s. 0d. Of the remaining 22 cases, 14 informations were withdrawn and 8 acquitted, the tenants having abated the overcrowding.

BAKEHOUSES.

6,153 visits have been made to Bakehouses during the year. 591 Bakehouses were found dirty, and notices were served to limewash and cleanse them. 4 notices were served to remove stagnant water, and 4 to remedy defective drains. All notices were complied with.

LICENSES FOR CATTLE.

During the year 1887, 5 applications were made to the Health Committee for licenses to keep cows; 4 of the applications for keeping 27 cows were granted. There are at present 465 shippons licensed to keep 5,721 cows. 59 of the shippons previously licensed have been transferred to fresh tenants.

9 applications were made during the year to keep pigs in styres separate from and unconnected with shippens ; 1 of the applications for keeping 6 pigs was granted. The total number of premises or styres now licensed in the City is 49 for keeping 163 pigs.

CONTAGIOUS DISEASES (ANIMALS) ACT, 1878.

This Act and the Orders issued under it by the Privy Council were referred to the Medical Officer to carry out, in conjunction with the Veterinary Inspector, the Inspector of Nuisances, and the Meat Inspectors.

On the 1st October, 1886, the Meat and Cattle Inspectors were transferred from the Nuisance to the Medical Officer's Department, to carry on their work under the supervision of Dr. Hope, the Assistant Medical Officer.

During the year pleuro pneumonia existed in 1 cowshed, the disease having appeared in the latter part of the previous year. At the end of 1886 there were 6 cows remaining on the premises, 5 of which became affected with the disease and were slaughtered by order of the Corporation ; 1 healthy animal which had been in contact with the affected ones was slaughtered by order of the owner.

The Meat Inspectors found in the slaughter-houses the carcasses of 2 cows which the Veterinary Inspector certified, on examination of the lungs, to have suffered from pleuro pneumonia. These cows were brought to the slaughter-houses from Ireland. The Privy Council was immediately informed of the circumstances.

Swine typhoid was detected in 11 pigs in the slaughter-houses, the diseased animals having been imported from Ireland.

DAIRIES, COWSHEDS, AND MILKSHOPS ORDER.

Number of applications for registration during the year	396
Of which transfers were	215
Number of applications granted	319
„ „ refused	77
Number on the register at the end of 1886	1954
„ „ „ 1887	2043
An increase of	<u>89</u>

SUMMARY of Veterinary Inspections, under the Contagious Diseases (Animals) Act, for year 1887,
by Richard S. Reynolds, M.R.C.V.S., Veterinary Inspector for the Corporation of Liverpool.

TABLE No. 1.
PLEURO-PNEUMONIA.

Post-Mortem Examinations of Lungs or Carcases.	Number of Infected Places.	PRIMARY INSPECTIONS.		Subsequent Examinations of Animals in infected places for Slaughter.		Animals examined for re-entry into infected places after disinfection.	Inspection of infected places cleansed and disinfected.
		No. of Animals Examined.	No. found Affected.	Healthy.	Diseased.		
3	..	3	..	2	5	..	1

TABLE No. 2.
SWINE TYPHOID.

No. of Pigs examined.	No. of Carcases examined.	Examination of Animals for removal for Slaughter.	Inspection of infected places cleansed and disinfected.
1	0	0	0

SUMMARY of Veterinary Inspections under the Contagious Diseases (Animals) Act—Continued.

TABLE No. 3.
FOOT AND MOUTH DISEASE.

	Post-Mortem Examinations.	Number of Infected Places.	Number of Animals in infected places on Outbreak.		Inspection of Animals in infected places for Slaughter.		Inspection of Animals after convalescence.	Inspection of infected places cleansed and disinfected.
			Healthy.	Diseased.	Healthy Animals removed for Slaughter.	Diseased Animals Killed on Premises.		
Cattle ..	—	—	—	—	—	—	—	—
Swine ..	—	—	—	—	—	—	—	—
Other Animals ..	—	—	—	—	—	—	—	—
Total ..	—	—	—	—	—	—	—	—

TABLE No. 4.
GENERAL.

EXAMINATION OF ANIMALS IN TRANSIT.			
	FOR EXPORT.		LANDED COASTWISE.
	Healthy.	Diseased.	Healthy. Diseased.
Cattle ..	31	—	— —
Sheep ..	—	—	— —
Swine ..	—	—	— —

SUMMARY of Veterinary Inspections under the Contagious Diseases (Animals)
Act.—*Continued.*

TABLE No. 5.
GLANDERS AND FARCY.

Post-Mortem Examinations.	Animals Examined.	Affected.	Not Affected.
0	1	0	1

TABLE No. 6.
RABIES.

Animals Examined.	Affected.	Not Affected.	Post-Mortem Examinations.	Affected.	Not Affected.
0	0	0	14	0	14

TABLE No. 7.
ANTHRAX.

Animals Examined.	Affected.	Not Affected.	Post-Mortem Examinations.	Affected.	Not Affected.
0	0	0	1	0	1

PROCEEDINGS UNDER THE CONTAGIOUS DISEASES (ANIMALS) ACT, 1878.

Number of Visits to Railway Stations	3,855
,, Inspections of pens	120,896
,, found clean	97,099
,, ,, dirty and cleansed before being used	23,791
,, Informations for dirty pens used before being cleansed	6
,, Inspections of Trucks	31,216
,, found clean	27,440
,, ,, dirty and cleansed before being used, or leaving the City dirty	3,508
,, Informations for dirty trucks used before being cleansed	18
,, Inspections of Horse Boxes	528
,, found clean	198
,, ,, dirty and cleansed before being used, or leaving the City dirty	3,525
,, Informations for dirty horse boxes used before being cleansed	1
Number of Inspections of Vessels	9,389
,, found clean	5,980
,, ,, dirty and cleansed before being used, or going to Sea without cattle or cargo	3,401
,, Informations for dirty vessels used before being cleansed	8
,, Inspections of Gangways	7,610
,, found clean	6,459
,, ,, dirty and cleansed before being used	1,148
,, Informations for dirty gangways used before being cleansed	3
,, Informations for not disinfecting scrapings and sweepings	1
Number of Inspections of Lairage and Sale Yards	3,165
,, found clean	2,375
,, ,, dirty and cleansed before being used	788
,, Informations for dirty Lairages used before being cleansed	2
,, ,, ,, landing dung of Foreign animals without consent in writing of the Local Authority	4
Total Number of Informations	43
Fined	42
Withdrawn	1
Amount of Fines and Costs	£35 9 0

SLAUGHTER-HOUSE RETURNS OF CATTLE KILLED IN
THE CITY, 1887, AND
RETURNS OF DEAD MEAT IMPORTED.

	STREET.	Beasts.	Sheep.	Lambs.	Calves.	Pigs.	Dead Meat Imported for Sale at the Abattoir.			
							Beasts.	Sheep.	Pigs.	Calves.
	Abattoir	40767	18275	..	16581	19814	6703	123709	31	..
	Foreign Animals' Wharf— Huskisson Dock .. } Canada Dock .. }	78	21	..	..	..	..	..	..	..
NEW PARTS.	Byles Street	52	1037	402	..	..	..	..	..	..
	Back Butler Street	478	522	316	46	2	..	..	..	..
	Back Castle Street	1156	400	44	27	..	..	..	..	..
	Back Mount Vernon Green	436	4387	1119	62	..	..	..	..	..
	Cotter Street	270	613	478	126	1986	..	..	..	..
	Corlett Street	452	1707	421	15	11	..	..	..	..
	Crown Street	602	1729	508	12	13	..	..	..	..
	Darnley Street .. . . .	..	..	..	..	1624	..	..	..	..
	Edgeware Street	106	383	153	1	..	..	..	..	..
	Embledon Street	758	2984	1552	64	44	..	..	..	..
	Foley Street .. . . .	..	..	..	..	7954	..	..	..	..
	Gelling Street	391	309	519	85	..	..	..	..	..
	Peel Street	187	1350	433	24	29	..	..	..	..
OLD PARTS.	Bevington Hill	2783	200	118	876	..	..	..	..	..
	Benledi Street .. . . .	..	..	..	..	1748	..	..	..	..
	Byrom Street .. . . .	..	..	..	..	1758	..	..	..	..
	Bolton Street	689	5060	1917	178	..	..	..	..	..
	Back Commutation Row(1)	426	1822	213	28	138	..	..	..	..
	" " " (2)	637	2695	107	2	6	..	..	..	..
	Copperas Hill .. . . .	..	..	..	..	10776	..	..	..	..
	Finch Place	835	2062	913	22	..	..	..	..	..
	Frederick Street	12	2110	502	2	31	..	..	..	..
	Hodson Street	476	606	54	304	..	..	..	..	..
	Lydia Ann Street	360	3872	628	..	..	..	..	..	..
	Norman Street .. . . .	..	..	..	..	3526	..	..	..	..
	Norfolk Street	13	791	230	2	4	..	..	..	..
	Scotland Road	284	23	..	496	4	..	..	..	..
	Soho Street .. . . .	..	..	..	..	1763	..	..	..	..
	Upper Milk Street	531	547	10	..	14367	..	..	..	..
Total in Private Slaughter-		11934	35209	10637	2372	45784				
houses										
Total in the City		52769	53505	10637	18953	65598	6703	123709	31	..

UNWHOLESOME MEAT, FISH, &c., SEIZED AND DESTROYED.

DATE.—1887.		Beef.	Veal.	Mutton.	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish	Oysters.
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head		Lbs.	Bags.	
SLAUGHTER HOUSES.	Abattoir	49938	6455	9866	..	6031	..	..	..	..	..
	Back Castle Street ..	..	..	..	..	..	..	..	..	..	..
	Bevington Hill ..	28168	2628	30	..	90	..	..	..	..	..
	Bolton Street ..	..	395	..	..	..	..	..	..	..	..
	Copperas Hill ..	..	..	..	..	1487	..	..	..	..	..
	Cotter Street ..	..	..	30	..	..	..	..	..	..	..
	Darnley Street ..	..	..	..	..	370	..	..	..	..	..
	Embledon Street ..	..	..	..	..	..	..	..	..	..	..
	Foley Street ..	..	..	..	..	..	..	..	..	..	..
	Gelling Street ..	..	175	..	..	..	..	..	..	..	..
	Leeds Street ..	..	..	..	..	..	..	..	..	..	..
	Peel Street ..	..	..	..	..	..	..	..	..	..	..
	Soho Street ..	..	..	..	..	175	..	..	..	..	..
	Upper Milk Street ..	..	..	..	..	540	..	..	..	..	..
	Scotland Road ..	920	363	..	..	..	..	..	..	..	..
	Finch Place ..	..	158	124	..	..	..	..	..	..	..
	Norman Street ..	..	..	..	..	270	..	..	..	..	..
	Hodson Street ..	16699	440	..	..	..	..	..	..	..	..
MARKETS.	St. James' .. ..	..	..	..	..	10	..	..	..	..	..
	St. John's	741	85	236	..	53	14	242	117300	109	..
	St. Martin's	828	..	..	..	..	..	..	..	..	..
	Shell Fish Market ..	..	..	..	..	..	..	..	..	..	..
OTHER PARTS.	Myrtle Street ..	..	5	..	..	..	..	..	..	..	..
	Dove Street ..	163	..	..	..	..	..	..	..	..	..
	Back Bond Street ..	..	..	..	..	..	..	..	20	..	..
	Charles Street ..	..	..	..	..	..	175	..	..	..	..
	Up. Frederick Street ..	..	..	50	..	..	..	..	..	..	..
	Dawson Street ..	..	..	..	..	..	177	..	..	..	..
	Jubilee Street ..	..	112	..	..	..	..	..	..	..	..
	Gt. Charlotte Street ..	..	..	..	..	..	140	55	14734	..	..
	Gt. Homer Street ..	..	..	..	..	..	..	..	35	..	..
	Gill Street ..	..	..	..	..	819	..	..	..	..	..
	Upper Hill Street ..	..	..	..	..	..	..	..	20	..	..
	Heyworth Street ..	..	..	..	..	..	..	..	15	..	..
	Roscommon Street ..	..	..	26	..	..	..	..	..	..	..
	Rainford Square ..	..	..	..	..	1524	..	..	..	..	..
	Falkner Street ..	16	..	..	..	..	..	..	..	..	..
	Gt. George Street ..	..	..	..	..	..	..	..	356	..	..
	Bevington Hill ..	..	..	..	..	..	..	..	9	..	..
	Latimer Street ..	..	..	..	..	..	..	..	15	..	..
	Park Road ..	30	..	..	..	..	..	..	..	..	..
	Roe Street ..	..	..	..	..	..	..	..	1510	..	..
	Wavertree Road ..	..	..	..	..	..	..	..	11	..	..
	Cropper Street ..	..	59	..	..	..	..	..	..	..	..
	Rose Street ..	..	..	..	..	..	..	..	8045	..	..
	Scotland Road ..	..	..	..	..	..	..	..	140	..	..
	Walton Road ..	..	..	..	..	..	..	..	10	..	..
	William Henry Street ..	..	..	..	..	..	..	..	15	..	..
	London Road ..	..	..	..	..	200	..	..	..	..	..
	Gt. Howard Street ..	200	..	..	..	..	..	..	40	..	..
	Sawney Pope Street ..	..	..	..	..	..	..	..	31	..	..
	Mill Street ..	300	..	5	..	..	..	..	70	..	..
	Stanley Road ..	..	..	..	..	..	..	..	6	..	..
Total		98003	10875	10367	..	11569	506	297	142382	109	..

				Tons.	cwts.	qrs.	lbs.
Meat—Equal to ..	..	..	..	59	7	3	26
Fish ..	..	..	..	63	11	1	2

Number of Visits to Slaughterhouses made by Meat Inspectors	14,126
,, Informations for Exposing for Sale Diseased Meat and Fish.. ..	55
,, Fined	45
,, Sent to Gaol	2
<hr/>	
Amount of Fines and Costs	£59 17 4

SMOTHERED AND INJURED CATTLE.

Beasts.	Sheep.	Pigs.	Number found good.	Number found bad.	Weight of Bad in pounds.
15	32	95	120	22	4,419

KNACKERS' YARDS RETURNS.

Horses Destroyed.	Asses Destroyed.	Other Animals Destroyed.
1,538	40	13

CANAL BOATS.

The following Report on the execution of the Canal Boats Acts, 1877 and 1884, by the Liverpool Sanitary Authority during the year 1887, was sent to the Local Government Board.

The Leeds and Liverpool Canal Company are proprietors of the only Canal having direct communication with Liverpool, and the length of the waterway within the City, exclusive of the locks which lead to the Docks, is about three miles.

The duties of measuring and inspecting the boats are discharged by Mr. Wilson, Chief Lodging-house Inspector, and Mr. Thornthwaite, Lodging-house Inspector. There is no additional salary paid them beyond what they receive as Lodging-house Inspectors.

The number of visits and inspections of Canal Boats during the year was 3,159.

46 Boats were found to be used as dwellings, and not registered.	} all abated.
10 Notices were sent to the owners	
5 Informations were laid	

9 were found without Certificates on board	} all abated.
2 Notices were sent to owners	

24 were found not having registered number painted on both sides of the boat; 19 Notices were sent, 20 abated, the remaining four not having been seen since by the Inspectors.

71 were found without proper accommodation provided for the separation of the sexes; 10 Notices sent to owners, but only four were altered, and proper accommodation made; several were found to have discontinued the practice of carrying both sexes. In 14 cases the Inspectors, on visiting the boats between 6 and 8 a.m., found the sexes mixed, and summoned the Masters.

20 boats had defective ventilation of cabins; 10 Notices were sent—all abated.

7 had defective ventilation between the bulkheads; 7 Notices were sent—all abated.

20 had defective second bulkheads; 18 Notices were sent to owners—all abated.

6 found carrying offensive cargoes, and not having a second bulkhead—all summoned.

12 required the cabins painting ; 6 Notices were sent to owners—all abated.

24 had cabins dirty and required cleaning ; 5 Notices were sent to owners and verbal notices to masters—all abated.

1 found overcrowded—master summoned.

Informations were laid in 26 cases, and in every instance fines were inflicted, varying from 1s. and 1s. costs to 5s. and 4s. 6d. costs.

A death from Measles occurred on the boat “Four Brothers,” No. 391. The boat was disinfected and cleansed by the master to the satisfaction of the Sanitary Authority.

There was also a case of Measles on the boat “Ellen,” No. 431. The boat and bedding were disinfected by the Sanitary Authority, and cleaned down by the master.

Thirty-one Notices were sent to the School Board of children living on Canal Boats and not attending any school.

The number of boats on the register is 419, of which 111 have been re-registered, viz. :—5 in 1884, 60 in 1885, 21 in 1886, and 25 in 1887.

During the year 1887 nineteen new boats were registered, and twenty-five were re-registered on account of change of owner.

There was a change of masters in fifty-one boats, and the necessary record made on the register.

MORTUARIES.

During the year 30 bodies were, by order of the Justices on the certificate of the Medical Officer, removed to the Mortuaries provided by the Council under Section 142 of the Public Health Act, 1875.

CASES OF INFECTIOUS DISEASE COMING UNDER THE NOTICE
OF THE MEDICAL OFFICER OF HEALTH DURING 1887.

Year—1887.	Small Pox.	Fever.	Scarlatina.	Measles.	Diphtheria	TOTAL.
January	2	72	190	444	8	716
February .. .. .	..	32	202	360	16	610
March .. .. .	..	42	138	793	9	982
April	2	43	128	1189	13	1375
May	6	75	150	1139	14	1384
June	5	81	115	401	7	609
July	4	56	71	50	8	189
August .. .. .	..	45	118	31	19	213
September	2	63	230	17	13	325
October .. .. .	..	61	337	26	11	435
November	1	67	198	18	3	287
December	1	56	129	50	16	252
TOTAL.....	23	693	2,006	4,518	137	7,377
Removed to Hospital.....	23	471	444	99	19	1,056

Of the patients removed to Hospital the following were conveyed by the Sanitary Officers:—398 cases of Fever, 409 cases of Scarlatina, 23 cases of Small Pox, 57 cases of Measles, 10 cases of Diphtheria, 2 cases of Chicken Pox, and 5 cases of Whooping Cough, making a total of 904 persons. 181 were taken to Netherfield Road Hospital, 611 to the Parish Workhouse Hospital, and 112 to the City Hospital, Park Hill.

In accordance with the arrangements made with the School Board, 3,150 post cards were sent to the Head Masters of the various schools, informing them that children from infected houses attended their schools. Similar information was sent to the School Board.

DISINFECTION OF HOUSES.

In all cases of infectious disease the houses were disinfected, free of cost, with sulphurous gas, by Officers appointed by the Health Committee, but whenever there was sickness in any room of the house, so as to endanger health by the use of sulphurous gas, carbolic acid powder was freely sprinkled in the rooms and passages of the house until the sulphurous gas could be used safely. No house is considered properly disinfected until sulphurous gas has been used. The existence of sickness, and the consequent employment of carbolic acid powder, necessitate many visits by the persons in charge of disinfection. There were in all 6,062 visits paid during the year to houses for the purpose of disinfection, the number of houses properly disinfected being 2,299.

THE DISINFECTING APPARATUS.

The number of articles disinfected at the Apparatus during the year amounted to 35,705.

DATE. 1887.		Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c.	Total Number of Articles.
Week ending—						
January	8 ..	66	118	394	307	885
„	15 ..	51	90	413	202	756
„	22 ..	59	85	613	269	1026
„	29 ..	44	71	310	339	764
February	5 ..	43	68	301	135	547
„	12 ..	46	82	299	276	703
„	19 ..	43	83	301	522	949
„	26 ..	60	87	408	430	985
March	5 ..	45	77	350	520	992
„	12 ..	49	78	354	498	979
„	19 ..	46	57	287	1132	1522
„	26 ..	32	46	241	465	784
April	2 ..	50	78	380	728	1236
„	9 ..	49	34	242	253	578
„	16 ..	38	39	267	181	525
„	23 ..	53	60	307	150	570
„	30 ..	34	42	263	323	662
May	7 ..	45	68	294	129	536
„	14 ..	44	49	342	180	615
„	21 ..	56	47	227	124	454
„	28 ..	36	28	134	190	388
June	4 ..	54	79	350	250	733
„	11 ..	46	64	282	158	550
„	18 ..	40	65	305	346	756
„	25 ..	73	58	299	1038	1468
July	2 ..	52	54	268	229	603
„	9 ..	51	66	212	146	475
„	16 ..	35	50	237	280	602
„	23 ..	23	33	202	40	298
„	30 ..	34	37	171	78	320
August	6 ..	27	43	127	30	227
„	13 ..	26	51	201	140	418
„	20 ..	16	23	99	29	167
„	27 ..	35	48	226	198	507
September	3 ..	26	46	196	54	322
„	10 ..	37	41	211	125	414
„	17 ..	30	45	213	164	452
„	24 ..	47	60	244	179	530
October	1 ..	48	100	295	60	503
„	8 ..	70	107	416	224	817
„	15 ..	62	70	440	157	729
„	22 ..	74	108	443	479	1104
„	29 ..	63	82	473	322	940
November	5 ..	62	91	386	95	634
„	12 ..	75	99	426	217	817
„	19 ..	62	96	326	284	768
„	26 ..	56	66	293	72	487
December	3 ..	81	108	422	257	868
„	10 ..	50	77	395	116	638
„	17 ..	95	97	473	325	990
„	24 ..	51	65	297	259	672
„	31 ..	42	39	245	114	440
Totals		2,532	3,455	15,900	13,818	35,705

The number of articles destroyed at the Apparatus during the year amounted to 625.

DATE. 1887.		Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c.	Total Number of Articles.
Week ending—						
January	8 ..	..	2	..	..	2
„	15 ..	1	..	1	..	2
„	22 ..	..	1	..	..	1
„	29 ..	2	2	7	15	26
February	5 ..	..	4	..	..	4
„	12 ..	..	2	..	..	2
„	19 ..	3	7	10	121	141
„	26 ..	..	11	..	..	11
March	5 ..	1	8	..	2	11
„	12 ..	1	8	2	..	11
„	19 ..	2	7	4	..	13
„	26 ..	..	4	..	..	4
April	2 ..	..	2	..	..	2
„	9 ..	..	..	..	..	..
„	16 ..	..	4	..	..	4
„	23 ..	3	13	1	..	17
„	30 ..	2	8	5	5	20
May	7 ..	3	10	..	12	25
„	14 ..	1	6	2	..	9
„	21 ..	1	..	4	..	5
„	28 ..	1	2	3	..	6
June	4 ..	1	6	2	2	11
„	11 ..	2	4	2	4	12
„	18 ..	1	2	1	..	4
„	25 ..	15	7	..	9	31
July	2 ..	2	8	4	1	15
„	9 ..	3	2	2	3	10
„	16 ..	..	1	2	..	3
„	23 ..	1	2	2	34	39
„	30 ..	..	..	..	..	..
August	6 ..	..	6	..	..	6
„	13 ..	..	2	..	3	5
„	20 ..	..	..	..	..	..
„	27 ..	1	2	2	..	5
September	3 ..	..	6	..	..	6
„	10 ..	..	3	..	..	3
„	17 ..	..	..	..	..	..
„	24 ..	..	4	..	..	4
October	1 ..	1	8	3	2	14
„	8 ..	2	4	..	..	6
„	15 ..	..	2	..	..	2
„	22 ..	2	3	1	6	12
„	29 ..	1	2	..	..	3
November	5 ..	..	2	..	..	2
„	12 ..	..	8	..	..	8
„	19 ..	2	4	..	..	6
„	26 ..	1	..	..	..	1
December	3 ..	6	10	3	30	49
„	10 ..	..	4	..	..	4
„	17 ..	4	5	9	21	39
„	24 ..	2	4	..	3	9
„	31 ..	..	..	..	..	..
Totals ..	..	68	212	72	273	625

INSPECTOR OF NUISANCES' REPORT, 1887.

NUISANCES.

Nuisances inspected, complained of by Inhabitants	3377
„ Reported by District Officers	62758
„ Notices issued	39607
„ Referred to the Medical Officer .. .	9117
„ „ City Engineer	1419
„ „ Building Surveyor	751
„ „ Water Engineer	7277
„ „ Superintendent of Scavengers . . .	1930
Number of Nuisance Informations .. .	3882
„ Fined .. .	839
„ Magistrates Orders to abate .. .	1366
„ Withdrawn and acquitted, the work being done .. .	1677
Amount of Fines and Costs	£203 9 0

HOUSE TO HOUSE VISITATION.

Number of Inspections of Street Houses	18790
„ Street Houses found Clean	18233
„ „ „ „ Dirty	557
„ Apartments in Street Houses Examined .. .	65010
„ Inspections of Court Houses	5381
„ Court Houses found Clean	4885
„ „ „ „ Dirty	496
„ Apartments in Court Houses Examined .. .	15365
„ Re-inspections of Dirty Houses	5327
„ Total Number of Houses Examined.. .. .	29498

CELLAR EXAMINATIONS.

Number of Inspections of Street Cellars	5997
„ Cellars used for Lumber, Coals, &c... .. .	1793
„ „ Found Empty	406
„ „ Illegally Occupied	209
„ „ Legally	3589
„ Inspections of Court Cellars	2009
„ Court Cellars used for Lumber, Coals, &c. .. .	1135
„ „ „ Found Empty	318
„ „ „ Illegally Occupied	91
„ „ „ Legally	465
„ Cellar Notices Issued	428
„ „ Informations.. .. .	88
„ Fined	83
„ Withdrawn	5
Amount of Fines and Costs.. .. .	£8 6 6

INFECTED AND DIRTY HOUSES.

1639	Infected Street Houses Inspected, containing	..	..	..	..	2377	cases.
320	,, Court ,, ,, ,,	..	..	..	..	399	,,
43	,, Cellars ,, ,,	..	..	..	..	66	,,
Number of Notices to Owners to Cleanse Infected Houses		..	..	..	..	1883	
,,	,, ,, ,, ,, Dirty Houses	..	..	..	..	1024	
,,	,, Occupiers to Whitewash Dirty Houses	..	..	..	..	503	
,,	,, Owners to Whitewash Exterior of Courts	..	..	..	..	1551	
,,	Informations against Infected and Dirty Houses	..	..	..	..	255	
,,	Fined .. .. .	..	..	..	..	42	
,,	Acquitted and Withdrawn .. .. .	..	..	..	..	213	
Amount of Fines and Costs						£26 16 0	

SHIPPON AND PIGGERY INSPECTION.

Number of Inspections of Shippons and Piggeries	...	...	...	...	...	...	...	...	1,111
,, Informations ...	...	...	...	...	...	...	...	...	8
,, Fined ...	...	...	...	...	...	...	...	...	7
Amount of Fines and Costs	...	...	...	...	...	..	£1	19 6	

DAIRIES AND MILK SHOPS.

Number of Inspections of Dairies and Milk Shops	...	...	...	...	...	...	...	...	...	2,292
,, found Incorrect	...	...	...	...	...	...	...	...	...	368
,, of Informations	...	...	..	...	...	...	...	..	...	77
,, Fined	...	...	...	..	...	...	...	...	...	71
,, Acquitted and Withdrawn	...	...	...	...	...	...	...	...	...	6
Amount of Fines and Costs	...	...	...	...	...	...	£9	2	6	

COURT AND PRIVY EXAMINATIONS.

Number of Visits to Courts and Alleys	...	...	..	...	...	...	95,212
„ Closets found Dirty, but Cleansed during Officer's Inspection	...						82,292
„ Informations	...	...	...	..	...	...	27
„ Fined	...	...	...	...	...	...	25
Amount of Fines and Costs	...	...	...	..	...	£3 12 0	

PROCEEDINGS FOR EXCESSIVE SMOKE.

Number of Informations against Manufactories	...	...	...	...	...	253
„ „ Steamers	...	...	...	...	...	228
„ Fined	...	...	...	...	...	465
„ Acquitted or Withdrawn	...	...	...	...	...	16
Amount of Fines and Costs	...	...	...	...	...	£415 5 6

REMOVALS TO MORTUARIES AND HOSPITALS.

Bodies Removed to Mortuaries.			Persons Removed to Hospitals.		
Smithdown Road.	St. Martin's.	Fazakerley.	Brownlow Hill.	Park Hill.	Netherfield Road.
1	28	1	611	112	181

SCAVENGING OPERATIONS.

The following tables have been kindly supplied by the Veterinary Superintendent, Mr. Richard S. Reynolds, M.R.C.V.S., who has charge of the scavenging staff, and under whose superintendence the work has been well performed.

There are two methods in operation for the removal of ashes and refuse, viz., the daily bell cart system, and the periodical emptying of ashpits and middens.

By the first method, 16,906 loads were removed by 15 bell carts, as set out in table 3.

By the latter system 69,552 loads of dry ashpit refuse were removed in the day time by 57 carts and wagons, and 5,430 loads of nightsoil and ashes removed during the night by 4 carts (see tables 1 and 2). It will thus be seen that the storing up of decaying and offensive matter in close proximity to the homes of the people is still largely adopted, and for the sake of public health some plan should be speedily adopted for the rapid removal of all refuse, and not to permit such offensive matters to accumulate in pits for three or four months before it is carted away.

Year 1887.

TABLE No. 1.

NIGHT SERVICE FOR EMPTYING MIDDENS, COURT ASHPITS, AND SOME OFFICE ASHPITS.

Notices Received.	Middens, &c., Emptied.	Loads of Nightsoil and Ashes.					Nightly average Working Staff.				Analysis of Work.		Average contents of each Midden. Cart Loads.	
		Number Removed.			Where Deposited.		Midden Men.	Wharf Men.	Carts.	Horses.	Loads per Man per Night.	Loads per Cart per Night.		
		Manure.	Ashes.	Total.	Chisen- hale Street	Sandhills.								River Craft Dock.
990	5,923	..	5,430	5,430	4,297	...	1,133	6.2	1.4	4.	4.	2.7	4.1	.91

TABLE No. 2.

SERVICE FOR THE COLLECTION AND REMOVAL OF DRY ASHPIT ASHES.

Notices Received.	Ashpits Emptied.	Loads of Dry Ashes.					Average Daily Working Staff.				Analysis of Work.		Average contents of each Ashpit.
		Number Removed.	Where Deposited.				Ashpit Men.	Carts and Wagons.	Horses.	Loads per Man per Day.	Loads per Cart per Day.	Cart Loads.	
			Chisen- hale Street	Sandhills.	River Craft Dock.	Waver- tree.							Rubbish Tips, &c.
2,449	333,078	69,552	18,386	19,951	25,651	1,210	4,354	80·	57·	57·6	3·1	3·9	·2

TABLE No. 3.

SERVICE FOR THE COLLECTION AND REMOVAL OF BELL
CART ASHES.

Loads Removed	Where Deposited.				Carts Employed
	Chisenhale Street.	Sandhills.	River Craft Dock.	Rubbish Tips	
16,906	8,848	2,248	5,805	5	15·3

TABLE No. 4.

SERVICE FOR FLUSHING AND CLEANSING TROUGH WATER
CLOSETS.

Number of Urinals.	Number of Trough Water Closets.	Average Working Staff.	
		Trough W. C. Men.	Urinal Men.
230—610 Stalls.	3,102	44·	11·2

TABLE No. 5.

SERVICE FOR CLEANSING , COLLECTION, AND REMOVAL OF REFUSE FROM STREETS, COURTS, PASSAGES , &c.

Loads of Street Sweepings Removed.						Average Daily Staff.				Average Number of Loads Removed Daily per Cart.
Total Number Removed.	Where Deposited.					Scavengers.	Sweeping Machines.	Carts.	Horses.	
	Chisenhale Street.	Sandhills.	Wavertree.	River Craft Dock.	Refuse on Tips and New Macadam.					
82,116	48,203	11,856	4,297	17,239	521	234·8	15·	60·	60·	4·4

TABLE No. 6.

CLEANSING AND REMOVAL OF REFUSE FROM STREETS, COURTS, AND PASSAGES ON SUNDAYS.

Loads of Street Sweepings.											
Removed.				Where Deposited.						Average Daily Staff.	
Manure.	Ashes.	Refuse.	Total.	Chisenhale St.		Sandhills.		River Craft Dock.			
				Manure.	Refuse.	Manure.	Refuse.	Manure.	Refuse.		
1,822	...	1,198	3,020	1,410	220	237	407	175	571	117·3	21·5

TABLE No. 7.

SERVICE FOR STREET WATERING.

SALT WATER.

FRESH WATER.

Number of Days on which Carts were out.	Total Number of Loads Distributed.				Average Daily Staff employed during the Season.		Average No. of Loads Distributed Daily per Cart.
	Large.		Small.		Watermen.	Carts and Horses.	
	Day.	Night.	Day.	Day.			
129	144,982	10,401	12,036	31·4	39·5	30·4	...
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					</		

TABLE No. 8.

DESPATCHES OF MANURE AND REFUSE.

	Saleable Manure.				Unsaleable Refuse.					Grand Total in Tons.	Average Daily Staff.	
	Night Soil.	Sweepings.	Mixture.	Total.	Contractors.	Farmers.	Depôts.	Sea.	Total.		Inspectors and Foremen.	Labourers.
Chisenhale St., by Flats..	..	5,232	8,976	14,208	44,784	4,608	3,648	..	53,040	67,248	}	25·1
Sandhills, do.	11,616	1,488	5,424	..	18,528	18,528		
Do., by Rail	6,245	234	6,479	6,531	..	..	..	6,531	13,010	}	2
Wavertree do.	3,680	..	3,680	1,896	..	..	..	1,896	5,576		
Chisenhale Street and	3,830	3,830	3,830	}	23·4
Sandhills, <i>via</i> Stanley D'k	50,810	50,810	50,810		
per "Alpha"	3,020	10,329	}	6·
per "Beta"	80	7,229	7,309	3,020	..	..	..	3,020	10,329		
River Craft Dock.....	54,180	54,180	54,180	}	40·
Do., per "Alpha"	9,100	9,100	9,100		
Do., per "Beta"	}	96·5
..	..	15,237	16,439	31,676	67,847	6,096	9,072	117,920	200,935	232,611		

TABLE No. 9.
HORSES.—DAILY AVERAGE NUMBER.

Hired.	Corporation Horses.				Supplied for various Works.																			
Number	Number.	Effective for Work.	Percentage of Ineffectives.	At Work every Sunday.	Scavenging.												City Engineer.					Disinfecting Vans, &c	Setton Park.	
7.4	257.2	247.6	3.7	21.5	Night Soil Removal.	4.1	57.6	15.3	76.4	4.1	1.1	2.	13.	3.4	5.	2.	1.	2.1	Paving.	Sewers Cleansing.	Brownlow Street.	Watering before Steam Roller.	Lighting Committee.	

New Horses.		Number Disposed of.		
Purchased.	Bred.	Died.	Destroyed.	Sold.
1	..	6	2	24

TABLE No. 11.

Daily Consumption of Provender and Weekly Cost per Horse per Week.
Food and Litter.

Days Keep.	Total Consumption of Food.	Daily Average Consumption per Horse.	Weekly Cost of each Horse's Keep.
93,626 Horses of Health Committee.	Corn	Lbs. 11·13	
	Beans and Peas ..	3·76	
	Oats	·55	
	Bran	3·	Gross weekly cost .. 11s. 3d.
	Meal	·46	Credit value of
	Roots	2·	Manure 9d.
	Grass.....		<u>10s. 6d.</u>
	Hay	10·64	
	Straw	5·7	
	Moss	3·2	
	Sawdust		

DURING THE YEAR 1887, IN THE URBAN SANITARY DISTRICT OF LIVERPOOL
ALSO THE POPULATION OF SUCH LOCALITIES

(I.) NAMES OF LOCALITIES adopted for the purpose of these Statistics ; public institutions being shown as separate localities. WARDS. 1.	POPULATION AT ALL AGES.		Registered Births. 4.	MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES.						w
	Census 1881.	Estimated to middle of 1887.		At all Ages.	Under 1 Year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 60.	
	2.	3.		5.	6.	7.	8.	9.	10.	
Scotland	70606	65008	2197	1592	452	393	101	63	411	
Vauxhall	15382	13123	335	267	79	67	13	5	76	
St. Paul's and Exchange	19937	17423	426	442	94	91	26	13	143	
St. Anne's and Lime Street	36688	33821	871	697	186	143	31	18	219	
Castle Street and St. Peter's	6644	5765	89	84	17	15	3	2	26	
Pitt Street and Great George	18910	16178	454	339	98	60	15	10	103	
Rodney Street and Abercromby	41997	38815	1211	675	152	131	30	18	192	
Everton	109812	119317	4030	2241	691	480	125	94	524	
Kirkdale	58145	80040	2382	1348	388	309	93	49	323	
West Derby	67727	78395	2538	1498	434	331	96	46	355	
The Toxteths	106660	125106	3881	2453	662	590	150	86	542	
(II.) Public Institutions. { Parish Workhouse & Hospitals .. ..	..	..	..	1777	158	154	89	133	829	
{ Out Township Hospitals .. ..	..	..	..	593	9	34	40	54	373	
Totals	552508	592991	18414	14006	3420	2798	812	591	4116	2

Deaths occurring outside the division or district among persons belonging thereto	173	9	8	2	10	73	
Deaths occurring within the division or district among persons not belonging thereto	222	11	15	7	26	134	

OF DEATHS

CLASSIFIED ACCORDING TO DISEASES, AGES, AND LOCALITIES, AND SHOWING
AND THE BIRTHS THEREIN DURING THE YEAR.

MORTALITY FROM SURJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.

12.	Smallpox. 13.	Measles. 14.	Scarlatina. 15.	Diphtheria. 16.	Croup (not 'spasmodic') 17.	Whooping Cough. 18.	Continued Fevers.			Diarrhoea and Dysentery. 22.	Cholera. 23.	Rheumatic Fever. 24.	Erysipelas. 25.	Pyæmia. 26.	Puerperal Fever. 27.	Ague. 28.	Phthisis. 29.	Bronchitis, Pneumonia, and Pleurisy. 30.	Heart Disease. 31.	Injuries. 32.	All Other Diseases. 33.
							Typhus. 19.	Enteric or Typhoid 20.	Other or Doubt- ful. 21.												
Under 5	..	73	21	2	13	66	..	1	..	89	..	..	..	..	..	..	9	175	..	37	359
upwards	..	8	10	1	1	6	3	9	2	13	..	10	4	..	1	..	92	233	75	29	250
Under 5	..	13	4	..	2	3	..	..	..	10	..	..	..	..	..	..	..	37	..	7	70
upwards	..	2	1	..	..	..	..	..	..	..	..	..	1	..	..	..	10	61	7	8	31
Under 5	..	17	4	1	2	5	..	1	..	14	..	..	..	..	..	..	1	39	..	9	92
upwards	..	2	7	..	1	..	1	5	1	1	..	1	..	..	..	..	26	94	23	20	75
Under 5	..	28	2	..	3	13	..	..	1	31	..	..	1	..	..	..	3	76	..	12	159
upwards	..	2	2	..	..	2	..	7	..	6	..	1	3	1	1	..	46	113	40	14	130
Under 5	..	4	..	..	..	1	..	..	..	4	..	..	..	..	..	..	..	4	..	..	19
upwards	2	..	..	..	..	..	..	6	11	7	5	21
Under 5	..	19	1	2	4	6	..	..	..	8	..	..	..	..	..	..	4	31	..	5	78
upwards	..	1	..	2	2	..	..	..	..	1	..	..	..	..	..	..	23	47	15	8	82
Under 5	..	35	6	3	4	21	..	..	..	29	..	..	..	..	..	..	2	61	..	7	115
upwards	..	3	3	2	1	2	1	7	..	1	..	5	3	1	1	..	50	90	46	4	172
Under 5	..	91	42	5	10	92	..	2	1	92	4	..	3	..	..	..	10	243	2	37	537
upwards	..	13	18	6	3	7	4	14	2	9	..	8	8	2	2	..	175	259	85	15	440
Under 5	..	54	32	6	20	50	..	2	..	76	..	..	1	..	..	..	4	136	..	10	306
upwards	..	6	14	3	3	2	..	11	..	11	..	3	3	1	5	2	108	153	66	20	240
Under 5	..	91	20	10	12	56	..	..	1	60	1	..	2	1	..	..	5	124	1	10	371
upwards	..	4	7	3	5	3	1	8	2	4	1	7	1	1	1	..	111	189	67	11	307
Under 5	..	164	55	23	21	74	..	3	..	124	..	..	2	..	..	..	15	210	..	38	523
upwards	..	13	29	8	3	1	2	11	1	17	..	5	5	3	1	2	181	265	150	28	476
Under 5	..	16	13	11	2	18	1	..	..	10	..	..	..	..	..	..	4	43	1	16	177
upwards	..	2	15	5	..	..	34	35	1	16	..	3	6	7	..	..	196	424	94	110	517
Under 5	8	2	2	1	..	..	..	1	..	..	..	..	..	..	..	3	..	13	13
upwards	1	..	7	..	..	..	5	14	..	1	..	1	2	4	..	4	89	86	63	53	220
Under 5	..	605	208	65	95	406	1	9	3	548	5	..	9	1	..	..	57	1182	4	201	2819
upwards	1	56	113	30	19	23	51	121	9	82	1	44	36	20	12	8	1113	2025	738	325	2961
Under 5	1	..	..	..	1	..	..	..	..	..	..	..	5	..	1	9
upwards	3	..	1	2	..	..	..	20	40	19	2	69
Under 5	4	..	1	..	1	..	1	..	..	..	..	..	..	1	3	..	2	14
upwards	1	1	..	..	..	..	1	1	..	..	26	24	15	28	99

TABLE OF NEW CASES OF SICKNESS,

*Coming to the knowledge of the Medical Officer of Health during the year 1887,
in the Urban Sanitary District of Liverpool, classified according to*

LOCALITIES and DISEASES.

NAMES OF LOCALITIES. WARDS.	NEW CASES OF SICKNESS IN PERSONS BELONGING TO THE DISTRICT.				
	Small Pox.	Measles.	Scarlatina.	Diphtheria.	Continued Fever.
Scotland.....	5	424	152	6	163
Vauxhall .....	..	106	19	4	21
St. Paul's and Exchange.....	2	166	40	1	58
St. Anne's and Lime Street .....	..	195	64	4	51
Castle Street and St. Peter's.....	..	24	23	..	7
Pitt Street and Great George.....	4	145	33	6	17
Rodney Street and Abercromby	2	340	137	13	55
Everton .....	..	655	377	15	86
Kirkdale.....	..	336	254	14	91
West Derby	1	629	304	20	43
The Toxteths.....	6	1474	596	54	85
Emigrants, Seamen, and others ad- mitted to Hospital whose resi- dences were unknown.....)	3	24	7	..	16
TOTALS.....	23	4518	2006	137	693

MORTALITY MAP OF FEVER
IN 1886.

The Red Dots mark the Number of Deaths.
(The Deaths occurring in Hospitals have been transferred to the streets from whence the Patients were removed.)

PHILIP'S PLAN OF LIVERPOOL

SCALE OF 1/4 MILE
0 100 200 300 400 500 600 700 800 900 Yards
1 2 3 4 5 6 7 8 9 10 Furlongs



R I V E R M E R S E Y

- REFERENCE TO THE WARDS
- 1 Everton & Kirkdale
 - 2 Scotland
 - 3 Vauxhall
 - 4 St Pauls
 - 5 Exchange
 - 6 Castle Street
 - 7 St Peters
 - 8 Pitt Street
 - 9 Great George
 - 10 Rodney Street
 - 11 Abercromby
 - 12 Lime Street
 - 13 St Anne's Street
 - 14 West Derby
 - 15 South Toxteth
 - 16 North Toxteth

DURING THE YEAR ENDING SATURDAY, 31ST DECEMBER, 1887.

INQUESTS.



